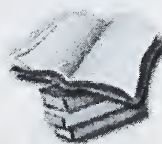




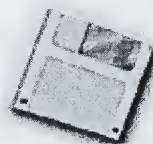
WESTERN CANADIAN PROTOCOL
for collaboration in basic Education

COMMON CURRICULUM FRAMEWORK

Kindergarten to Grade 9 Mathematics Resources




Annotated Bibliography



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c. 2
CURRGD

August 1999



Digitized by the Internet Archive
in 2017 with funding from
University of Alberta Libraries

<https://archive.org/details/kindergartentogr01unse>

Western Canadian Protocol
for Collaboration in Basic Education
Common Curriculum Framework

Kindergarten to Grade 9
Mathematics Resources

Annotated Bibliography

AUGUST 1999

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The Governments of Manitoba, Saskatchewan, British Columbia, Yukon Territory,
Northwest Territories and Alberta

CATALOGUING IN PUBLICATION DATA

Kindergarten to grade 9 mathematics resources : annotated bibliography.

Available in electronic format on the World Wide Web:

URL: <http://www.wcp.ca/>

ISBN 0-7785-0567-7

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 2. Mathematics — Study and teaching — British Columbia — Bibliography.
 3. Mathematics — Study and teaching — Manitoba — Bibliography.
 4. Mathematics — Study and teaching — Saskatchewan — Bibliography.
 5. Mathematics — Study and teaching — Northwest Territories — Bibliography.
 6. Mathematics — Study and teaching — Yukon Territory — Bibliography.
- I. Title. II. Title: Common Curriculum Framework. III. Title: Western Canadian Protocol for Collaboration in Basic Education.

QA14.C2.K51 1999

372.7

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INTRODUCTION

Background

The Western Canadian Protocol for Collaboration in Basic Education Kindergarten to Grade 12 was signed in December 1993 by the ministers of education from Manitoba, Saskatchewan, Alberta, British Columbia, Yukon Territory and the Northwest Territories. *The Common Curriculum Framework for K–12 Mathematics*, for Kindergarten to Grade 9, was released in June 1995.

Foreword

This annotated bibliography identifies the English language resources endorsed in April 1999, by all Western Canadian Protocol (WCP) jurisdictions implementing *The Common Curriculum Framework for K–12 Mathematics*, for Kindergarten to Grade 9 (Common Curriculum Framework). For a complete listing of WCP approved resources for Kindergarten to Grade 9 mathematics, refer to this document and the May 1997 edition of the WCP Kindergarten to Grade 9 Mathematics Resources Annotated Bibliography, or visit the WCP web site at <<http://www.wcp.ca>>.

Resources in this annotated bibliography were selected, through a collaborative review process, based on their high level of fidelity with the rationale, philosophy, mathematical processes and outcomes of the Common Curriculum Framework. The resources have undergone an intensive review and were found to be the most suitable of those submitted.

Acknowledgments

The Western Canadian Protocol jurisdictions would like to thank everyone involved in the review and selection processes to identify the best student and teacher resources to support the Kindergarten to Grade 12 mathematics framework. In 1999, 38 teachers and ministry staff were selected by the participating jurisdictions to review 791 items for Kindergarten to Grade 9, which were received in response to the invitation to publishers, producers and distributors for resource submissions.

Appreciation is also extended to all the school systems in the WCP jurisdictions that supported teachers participating in the review processes.

Finally, appreciation is extended to the publishers, producers and distributors who, in many cases, engaged in significant development to provide resources specifically designed for the Common Curriculum Framework.

Organization

The resources in this bibliography are organized by grade, then alphabetically by title. Resources that are suitable at more than one grade appear in each of the applicable grades, thus providing a comprehensive list of materials for each grade.

Annotations with resource descriptions have been written for each resource. Where material is deemed to be particularly useful for students with special needs or for small populations; e.g., learning disabled, gifted, this information is included in the *Audience* section of the annotation.

An alphabetical title listing at the end of the bibliography indicates the designated grade(s) of each resource.

Note: In the annotations, Common Curriculum Framework is used to refer to *The Common Curriculum Framework for K–12 Mathematics: Western Canadian Protocol for Collaboration in Basic Education*—the Kindergarten to Grade 9 framework.

Alternate Format(s)

Some of the WCP approved resources are or may be available in alternate formats to address the needs of students who are visually impaired, print disabled or hearing impaired. This information is included in the annotations.

Pricing Information

The prices appearing in this document represent the estimated WCP prices to schools and should be firm until August 31, 2000.

These prices should be used as a guideline for purchase planning. They are applicable to all six participating jurisdictions (four provinces and two territories). The final selling prices for these resources may vary slightly in jurisdictions with book bureaus, depending upon jurisdictional negotiations. Confirmation of pricing should be obtained directly from your jurisdictional book bureau or redistribution centre, if applicable.

For video resources, special video licencing arrangements may be negotiated by individual jurisdictions with appropriate video distributors. Contact your

provincial/territorial video distribution centre for details.

Resource Category

All learning and teaching resources included in this annotated bibliography were approved by the Western Assistant Deputy Ministers' Steering Committee and designated as WCP Key Resources for the Common Curriculum Framework.

Definitions

Fidelity is the degree to which the learning or teaching resource addresses the general and specific outcomes in the Common Curriculum Framework.

WCP Key Resources are high quality learning and teaching resources that best address the philosophy and content of the outcomes embodied in the Common Curriculum Framework. These include resources in a variety of media and formats, with the following characteristics:

- *Breadth* identifies learning resources with the highest possible level of fidelity with the Common Curriculum Framework general and specific outcomes published for a particular grade.
- *Depth* identifies learning resources that address only a subset of the outcomes with a high level of fidelity, but provide an especially effective learning experience for students.
- *Breadth and Depth* identifies comprehensive learning resources that provide both the *breadth* and *depth* dimensions for a particular grade.
- *Teacher* identifies resources that assist teachers with the implementation of the Common Curriculum Framework.

Criteria for the Selection of Learning and Teaching Resources

Resources in this annotated bibliography were selected according to the following criteria:

- *Content and Curriculum Fit* includes how effectively a learning or teaching resource supports any given learning outcome within a strand or substrand and meets student needs.
- *Instructional Design* includes the organization and presentation techniques; the methods used to introduce, develop and summarize concepts; the vocabulary level of the resource; and the suitability to student learning styles or to special audiences.
- *Technical Design* includes binding, type of print, quality of illustrations, durability and format. For software, such factors as hardware requirements, ease of navigation and robustness of programming are considered. For multimedia resources, such factors as pacing, quality of pictures/sound, user friendliness, use of special features for emphasis and interactivity are considered.
- *Social Considerations* includes screening for social concerns.

When selecting learning and teaching resources from this list, consideration should be given to how the resources meet the learning needs of students and to the perspectives of the local community.

Information on a resource may be obtained from the descriptions in this bibliography, from the distributor, from published reviews or colleagues, and from an examination of the resource.

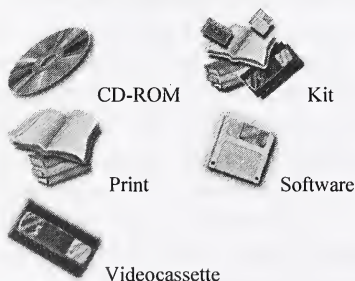
SAMPLE ANNOTATION

| WESTERN CANADIAN PROTOCOL COMMON EDUCATION FRAMEWORK | | KINDERGARTEN – LEARNING AND TEACHING RESOURCES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|----------------------------|---|-----------------|-------------------|----------|-------------------------|-------------------------|-------------|----------------------------|-----------------|---------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|--|---|------------------------------------|---|---|--|--|--------------------------------------|
| Series and Title | ABCirquel (English Macintosh/Windows Version) | Annotation: ABCirquel is a set of eight educational games designed to help children learn to read and count. The games allow students to choose among letters, numbers and geometrical shapes. | Annotation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resource Designation | Depth Resource | Comments: • The resource is integrated around a circus theme. • There is no accompanying guide. | Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Format | Physical Characteristics: One CD-ROM | System Requirements: • Macintosh: System 7.0 or higher; 68020, 68030, 68040 or PowerPC; 4 MB RAM; 256 colour 640 x 480 monitor; CD drive. • Windows 3.1: 486 processor or faster; 4 MB RAM; 256 colour 640 x 480 monitor and card; CD drive, sound card. • Windows 95: 486 processor or faster (Pentium recommended); 4 MB RAM; 256 colour 640 x 480 monitor and card; CD drive, sound card. | System Requirements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alternate Format(s) | Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired: • Access to Publisher's Disks for Production | Audience: General | Audience | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grade Level(s) Grid | Grade Level(s): <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>K</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td> </tr> <tr> <td style="text-align: center;">✓</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table> | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ✓ | | | | | | | | | | Mathematical Process(es): <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>Communication</td> <td>Connections</td> <td>Estimation and Mental Math</td> <td>Problem Solving</td> <td>Reasoning</td> <td>Technology</td> <td>Visualization</td> </tr> <tr> <td></td> <td style="text-align: center;">✓</td> <td></td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td></td> <td></td> </tr> </table> | Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization | | ✓ | | ✓ | ✓ | | | Mathematical Process(es) Grid |
| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ✓ | | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Strand(s)/Substrand(s): <table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Number</th> <th colspan="3">Patterns and Relations</th> <th colspan="3">Shape and Space</th> <th colspan="2">Statistics and Probability</th> </tr> <tr> <th>Number Concepts</th> <th>Number Operations</th> <th>Patterns</th> <th>Variables and Equations</th> <th>Relations and Functions</th> <th>Measurement</th> <th>3-D Objects and 2-D Shapes</th> <th>Transformations</th> <th>Data Analysis</th> <th>Chance and Uncertainty</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">✓</td> <td></td> <td></td> <td style="text-align: center;">✓</td> <td></td> <td style="text-align: center;">✓</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | | Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty | ✓ | | | ✓ | | ✓ | | | | | Strand(s)/Substrand(s) Grid | | | | | |
| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ✓ | | | ✓ | | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> <div> Publisher: Micro - Intel Distributor: Diffusion Multimedia inc. 1200 rue Papineau, bureau 321 MONTREAL, QC, CANADA H2K 4R5 Telephone: (514) 527-4646 Fax: (514) 527-4646 Internet: http://www.difim.com </div> <div> Copyright: 1997 </div> <div> Title: ABCirquel (English Macintosh/Windows Version) </div> <div> Est. WCP Price(s): \$39.95 (Single User) \$160.00 (3-User Labpack) \$280.00 (10-User Labpack) </div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

- **Series and Title:** series names are indicated by italics.
 - The "New" icon identifies what is new for 1999. It may be a new resource or a new component in a multicomponent resource.

- **Resource Designation:** indicates breadth, depth, breadth and depth, or teacher resource.

- **Format:** is represented by an icon, such as:



- **Alternate Format(s):** indicates which resources are or could be available in alternate formats for students who are visually impaired or print disabled.
- **Grade Level(s) Grid:** indicates the suitable grade level(s) of the resource.
- **Strand(s)/Substrand(s) Grid:** allows teachers to see, readily, the fit between the Common

Curriculum Framework strands/substrands and the outcomes covered in the resource.

- **Annotation:** provides an overview of the resource.

- **Comments:** provide additional information about the resource.

- **Cautions:** alert teachers to potentially sensitive issues/community concerns, or concerns about curriculum fit.

- **System Requirements:** specify the type of hardware required to run the software, and any other system information.

- **Audience:**
 - General: the majority of students.
 - Learning Disabled (LD): students who have difficulty in processing and understanding spoken, written or visual information.
 - Gifted: students who give evidence of high performance capability in areas such as intellect, creativity, or specific academic disciplines.
 - ESL: students who are learning English as a second language.
 - ID (Mild): students with mild mental handicaps.

- **Mathematical Process(es) Grid:** identifies those processes students will use when working through the activities provided in the resource.



KINDERGARTEN - LEARNING AND TEACHING RESOURCES



ABCirque! (English Macintosh/
Windows Version)

Depth Resource

Physical Characteristics:

One CD-ROM



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Access to Publisher's Disks for Production

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | | | | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | | ✓ | | | ✓ | | | | |

Annotation:

ABCirque! is a set of eight educational games designed to help children learn to read and count. The games allow students to choose among letters, numbers and geometrical shapes.

Comments:

- The resource is integrated around a circus theme.
- There is no accompanying guide.

System Requirements:

- Macintosh: System 7.0 or higher; 68020, 68030, 68040 processor or PowerPC; 4 MB RAM, 256 colour 640 x 480 monitor, CD drive.
- Windows 3.1: 486 processor or faster, 4 MB RAM, 256 colour 640 x 480 monitor and card, CD drive, sound card.
- Windows 95: 486 processor or faster (Pentium recommended), 4 MB RAM, 256 colour 640 x 480 monitor and card, CD drive, sound card.

Audience: General

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| | ✓ | | ✓ | ✓ | | |

Publisher: Micro - Intel

Distributor:

Telephone:

Copyright:

1997

Title:

ABCirque! (English Macintosh/Windows Version)

Est. WCP Price(s):

\$39.95 (Single User)
\$160.00 (5-User Labpack)
\$280.00 (10-User Labpack)



Active Learning Series

The Exclusive Numberline:
Teaching Number Sense and
Numeration: Grades K-3, Ages
5-8

Teacher Resource

Author(s):

Danbrook, C.

Physical Characteristics:

Approximately 150 pages, 3-ring binder



Annotation:

This teacher resource is used to teach number concepts and operations. Each activity includes the focus outcome, presentation of the concept, assessment ideas, as well as a "Big Math Idea." Blackline masters are included, but most activities require minimal preparation.

Comments:

- A floor number line would be helpful.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | | | | | | | | |

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products Ltd.
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3

Telephone: (800) 563-1166, (705) 725-1166

Fax: (705) 725-1167

Internet: <http://www.exclusiveeducational.ca>

Copyright:

1997

Title:

The Exclusive Numberline: Teaching Number
Sense and Numeration: Grades K-3, Ages 5-8

Est. WCP Price(s):

\$34.95



Graphers (Macintosh/Windows Version)

Depth Resource

Physical Characteristics:

One CD-ROM and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder



Annotation:

This graphing tool allows the user to collect, organize and display data in various forms of charts and graphs appropriate to grade level. It also allows for communicating information about the data in an on-screen notebook. This program features a variety of topics, complete with icons, a split screen to view more than one chart and/or graph, a work space where students can manipulate data, and a teacher's option feature. The teacher resource guide gives sample lessons at grade level, step by step instructions on how to use the program and a set of blackline masters.

Comments:

- This program features a teacher's option that allows the teacher to select graphs according to a student's grade level; select number types—fractions, decimals, per cents; modify data sets; select graphing speed; and change sound options.
- There is one icon in the classroom section, within the data maker tool Counting Data, that displays the American flag; it can be hidden by using the preferences under the edit tool.

System Requirements:

- Macintosh: System 6.0.7 or higher, 68020 processor or higher, 2 MB RAM.
- Windows 3.1: Windows 3.1 or higher, 2 MB RAM.

Audience: General

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | ✓ | |

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7

Telephone: (800) 667-1115 ; (416) 293-8464

Fax: (416) 293-9009

Internet: <http://www.gagelearning.com>

Copyright:

1997

Title:

Graphers (Macintosh/Windows Version)

Est. WCP Price(s):

\$99.95



**Hands-On Math: Manipulatives
Activities for the K-1 Classroom**

Teacher Resource

Author(s):

Johnson, V.

Physical Characteristics:

224 pages, softcover



Annotation:

This resource provides a choice of activities within each strand of the Common Curriculum Framework, to meet a variety of student levels. Several learning strategies are employed within each activity. Manipulatives that are commonly found in classrooms can be used to carry out the activities.

Audience: General/Gifted/LD

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | | | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | |

Publisher: Creative Teaching Press

Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3

Telephone: (800) 668-0600; (905) 841-0600

Fax: (800) 668-0602; (905) 727-6265

Internet: <http://www.spectrumed.com>

Copyright:

1994

Title:

Hands-On Math: Manipulatives Activities for
the K-1 Classroom

Est. WCP Price(s):

\$23.95



Active Learning Series

Learn with "Matty" on the
Calcu-Mat: Grades K-3, Ages 5-8

Depth Resource

Author(s):

Janes, R.

Physical Characteristics:

Vinyl mat and teacher material—about 50
pages, coilbound



Annotation:

This resource contains a 52 inch by 60 inch vinyl calculator mat and a student guide. The activities are designed to introduce calculator skills through touching the keys on the mat.

Comments:

- This resource lends itself to language development.

Audience: General/ESL/LD

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | | | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| ✓ | ✓ | | ✓ | | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | | | | | |

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products Ltd.
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3

Telephone: (800) 563-1166; (705) 725-1166

Fax: (705) 725-1167

Internet: <http://www.exclusiveeducational.ca>

Copyright:

1993

Title:

Learn with "Matty" on the Calcu-Mat: Grades
K-3, Ages 5-8

Est. WCP Price(s):

\$44.95



Measure for Measure: Using Portfolios in K-8 Mathematics

Teacher Resource

Author(s):
Kuks, T. M.

Physical Characteristics:
118 pages, softcover



Annotation:

This is a professional resource for teachers who wish to have information about portfolio assessment in mathematics. It describes how teachers can use portfolios and explain portfolio assessment to students and parents. It also provides information on using rubrics for assessing portfolios.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: Heinemann
Distributor: Irwin Publishing
 325 Humber College Boulevard
 TORONTO, ON, CANADA M9W 7C3
Telephone: (800) 263-7824; (416) 798-0424
Fax: (416) 798-1384
Internet: <http://www.irwin-pub.com>

Copyright: ISBN:
 1997 0435071351

Title:
 Measure for Measure: Using Portfolios in K-8 Mathematics

Est. WCP Price(s):
 \$27.80



Mighty Math

Mighty Math Carnival Countdown
(Macintosh/Windows School Version)

Depth Resource

Physical Characteristics:

Two CD-ROMs and a manual—
76 pages—all in a 3-ring binder



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | | | | | |

Annotation:

This program addresses the number concepts, number operations and patterns strands for Kindergarten to Grade 2. The program is easy for students to use; levelling of activities is easy to access and preprogram for students. Sound and graphics are used, and the teacher resource manual is user-friendly.

Comments:

- Outcomes in Grade 1 are limited.

System Requirements:

- Macintosh: System 7.0.1 or higher; 68040, 68030 (25 MHz or faster recommended) or PowerPC; 4 MB RAM (8 MB recommended); 256 colour, 13-inch or larger monitor; double speed CD drive.
- Windows 3.1: 486 (Pentium recommended), hard disk with up to 5 MB free, 8 MB RAM, Super VGA graphics, 256 colour 640 x 480 monitor, double speed CD drive, Windows-compatible sound card.
- Windows 95: 486 (Pentium recommended), hard disk with up to 5 MB free, 8 MB RAM, Super VGA graphics, 256 colour 640 x 480 monitor, double speed CD drive, Windows-compatible sound card.

Audience: General

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Edmark Corporation

Distributor: Edmark Corporation
6727 - 185 Ave NE
REDMOND, WA, USA 98073-9721

Telephone: (800) 426-0856; (425) 556-8436

Fax: (425) 556-8430

Internet: <http://www.edmark.com>

Copyright: ISBN:

1996 1569262810

Title:

Mighty Math Carnival Countdown
(Macintosh/Windows School Version)

Est. WCP Price(s):

\$59.95 (US)



Assessment Bookshelf Series

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Teacher Resource

Author(s):

Ainsworth, L.; Christinson, J.

Physical Characteristics:

109 pages, softcover



Annotation:

This professional resource promotes the use of student input for evaluating performance tasks. The resource shows how students can use generated rubrics for guidance as they complete their projects. Sample student work is provided.

Comments:

- This is a teacher resource that could be used across curriculum areas.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: Addison-Wesley Longman

Distributor: Addison-Wesley Longman Pearson

Education

26 Prince Andrew Place

P.O. Box 580

DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: ISBN:

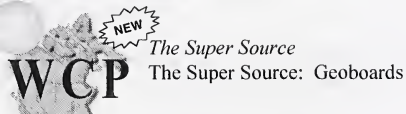
1998 1572329211

Title:

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Est. WCP Price(s):

\$16.11



Teacher Resource

Physical Characteristics:
96 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | | | | | ✓ | | ✓ | |

Publisher: Cuisenaire Company of America, Inc.

Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3

Telephone: (800) 668-0600; (905) 841-0600

Fax: (800) 668-0602; (905) 727-6265

Internet: <http://www.spectrumed.com>

Copyright: 1996
ISBN: 1574520067

Title:
The Super Source: Geoboards

Est. WCP Price(s):
\$19.95



The Super Source

The Super Source: Snap Cubes

Teacher Resource

Physical Characteristics:

95 pages, softcover



Annotation:

This teacher resource provides a set of activities with snap cubes. While the activities are episodic rather than systematic, the resource shows how some learning outcomes can be supported through the use of snap cubes. Activities are often challenging.

Comments:

- The resource does not include a set of snap cubes.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | | | ✓ |

Publisher: Cuisenaire Company of America, Inc.

Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3

Telephone: (800) 668-0600; (905) 841-0600

Fax: (800) 668-0602; (905) 727-6265

Internet: <http://www.spectrumed.com>

Copyright: ISBN:

1996 157452013X

Title:

The Super Source: Snap Cubes

Est. WCP Price(s):

\$19.95



Active Learning Series

The Exclusive Numberline:
Teaching Number Sense and
Numeration: Grades K–3, Ages
5–8

Teacher Resource

Author(s):
Danbrook, C.

Physical Characteristics:
Approximately 150 pages, 3-ring binder



Annotation:

This teacher resource is used to teach number concepts and operations. Each activity includes the focus outcome, presentation of the concept, assessment ideas, as well as a "Big Math Idea." Blackline masters are included, but most activities require minimal preparation.

Comments:

- A floor number line would be helpful.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | | | | | | | | |

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd.
 243 Saunders Road
 BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563–1166; (705) 725–1166
Fax: (705) 725–1167
Internet: <http://www.exclusiveeducational.ca>

Copyright:
1997

Title:
The Exclusive Numberline: Teaching Number
Sense and Numeration: Grades K–3, Ages 5–8

Est. WCP Price(s):
\$34.95



50 Problem Solving Lessons

Annotation:

This is a compilation of open-ended mathematics problem-solving activities, for Grade 1 to Grade 6, that promote critical thinking and use manipulatives.

Audience: Teachers

Teacher Resource

Author(s):

Burns, M

Physical Characteristics:

183 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | ✓ |

Publisher: Addison-Wesley Longman Ltd.

Distributor: Addison-Wesley Longman Pearson

Education

26 Prince Andrew Place

P.O. Box 580

DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: ISBN:

1996 0941355160

Title:

50 Problem Solving Lessons

Est. WCP Price(s):

\$20.79



Graphers (Macintosh/Windows Version)

Depth Resource

Physical Characteristics:

One CD-ROM and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder



Annotation:

This graphing tool allows the user to collect, organize and display data in various forms of charts and graphs appropriate to grade level. It also allows for communicating information about the data in an on-screen notebook. This program features a variety of topics, complete with icons, a split screen to view more than one chart and/or graph, a work space where students can manipulate data, and a teacher's option feature. The teacher resource guide gives sample lessons at grade level, step by step instructions on how to use the program and a set of blackline masters.

Comments:

- This program features a teacher's option that allows the teacher to select graphs according to a student's grade level; select number types—fractions, decimals, per cents; modify data sets; select graphing speed; and change sound options.
- There is one icon in the classroom section, within the data maker tool Counting Data, that displays the American flag; it can be hidden by using the preferences under the edit tool.

System Requirements:

- Macintosh: System 6.0.7 or higher, 68020 processor or higher, 2 MB RAM.
- Windows 3.1: Windows 3.1 or higher, 2 MB RAM.

Audience: General

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | ✓ | |

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co.
 164 Commander Boulevard
 SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-9009
Internet: <http://www.gagelearning.com>

Copyright:
1997

Title:
Graphers (Macintosh/Windows Version)

Est. WCP Price(s):
\$99.95



Hands-On Math: Manipulatives
Activities for the K-1 Classroom

Teacher Resource

Author(s):

Johnson, V.

Physical Characteristics:

224 pages, softcover



Annotation:

This resource provides a choice of activities within each strand of the Common Curriculum Framework, to meet a variety of student levels. Several learning strategies are employed within each activity. Manipulatives that are commonly found in classrooms can be used to carry out the activities.

Audience: General/Gifted/LD

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | | | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | |

Publisher: Creative Teaching Press

Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3

Telephone: (800) 668-0600; (905) 841-0600

Fax: (800) 668-0602; (905) 727-6265

Internet: <http://www.spectrumed.com>

Copyright:

1994

Title:

Hands-On Math: Manipulatives Activities for
the K-1 Classroom

Est. WCP Price(s):

\$23.95



Active Learning Series

Learn with "Matty" on the

Calcu-Mat: Grades K-3, Ages 5-8

Depth Resource

Author(s):

Janes, R.

Physical Characteristics:

Vinyl mat and teacher material—about 50 pages, coilbound



Annotation:

This resource contains a 52 inch by 60 inch vinyl calculator mat and a student guide. The activities are designed to introduce calculator skills through touching the keys on the mat.

Comments:

- This resource lends itself to language development.

Audience: General/ESL/LD

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | | | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | | ✓ | | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | | | | | |

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products Ltd.
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3

Telephone: (800) 563-1166; (705) 725-1166

Fax: (705) 725-1167

Internet: <http://www.exclusiveeducational.ca>

Copyright:

1993

Title:

Learn with "Matty" on the Calcu-Mat: Grades K-3, Ages 5-8

Est. WCP Price(s):

\$44.95



Measure for Measure: Using
Portfolios in K–8 Mathematics

Teacher Resource

Author(s):

Kuhs, T. M.

Physical Characteristics:

118 pages, softcover



Annotation:

This is a professional resource for teachers who wish to have information about portfolio assessment in mathematics. It describes how teachers can use portfolios and explain portfolio assessment to students and parents. It also provides information on using rubrics for assessing portfolios.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: Heinemann

Distributor: Irwin Publishing
325 Humber College Boulevard
TORONTO, ON, CANADA M9W 7C3

Telephone: (800) 263-7824; (416) 798-0424

Fax: (416) 798-1384

Internet: <http://www.irwin-pub.com>

Copyright: 1997

ISBN: 0435071351

Title:

Measure for Measure: Using Portfolios in K–8
Mathematics

Est. WCP Price(s):

\$27.80



Mighty Math
Mighty Math Carnival Countdown
(Macintosh/Windows School Version)

Depth Resource

Physical Characteristics:
Two CD-ROMs and a manual—
76 pages—all in a 3-ring binder



Annotation:

This program addresses the number concepts, number operations and patterns strands for Kindergarten to Grade 2. The program is easy for students to use; levelling of activities is easy to access and preprogram for students. Sound and graphics are used, and the teacher resource manual is user-friendly.

Comments:

- Outcomes in Grade 1 are limited.

System Requirements:

- Macintosh: System 7.0.1 or higher; 68040, 68030 (25 MHz or faster recommended) or PowerPC; 4 MB RAM (8 MB recommended); 256 colour, 13-inch or larger monitor; double speed CD drive.
- Windows 3.1: 486 (Pentium recommended), hard disk with up to 5 MB free, 8 MB RAM, Super VGA graphics, 256 colour 640 x 480 monitor, double speed CD drive, Windows-compatible sound card.
- Windows 95: 486 (Pentium recommended), hard disk with up to 5 MB free, 8 MB RAM, Super VGA graphics, 256 colour 640 x 480 monitor, double speed CD drive, Windows-compatible sound card.

Audience: General

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | | | | | |

Publisher: Edmark Corporation

Distributor: Edmark Corporation
6727 - 185 Ave NE
REDMOND, WA, USA 98073-9721

Telephone: (800) 426-0856; (425) 556-8436

Fax: (425) 556-8430

Internet: <http://www.edmark.com>

Copyright: ISBN:

1996 1569262810

Title:

Mighty Math Carnival Countdown
(Macintosh/Windows School Version)

Est. WCP Price(s):

\$59.95 (US)



Quest 2000: Exploring Mathematics (Grade 1)

- Student Book (Revised Edition)
- Teacher's Guide & Journal (Revised Edition)
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Problem of the Week
- Professional Handbook (Revised Edition)
- Developing Number Strategies
- Exploration Centres: Activity Cards



Breadth and Depth Resource

Author(s):

Wortzman, R. et al.

Physical Characteristics:

- Student Book—103 pages, softcover
- Teacher's Guide & Journal—464 pages, coilbound
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition)—210 pages each, softcover
- Teacher Support Package—160 pages, softcover
- Problem of the Week—32 transparencies
- Professional Handbook—96 pages, softcover
- Developing Number Strategies—Approximately 150 pages, small format, coilbound
- Exploration Centres: Activity Cards—Approximately 150 pages, loose



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Access to Publisher's Disks for Production

Annotation:

This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking, and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eleven units built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level. Technology suggestions are included.

• *Student Book*

This supports student work by providing real-world problems, data, vocabulary and a variety of visual representations. Students can record their feelings, thinking and understandings. Family notes suggest home activities to extend or reinforce learning.

• *Teacher's Guide & Journal*

This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities and assessing ongoing performance. Classroom management ideas are included and journal notes facilitate observations and planning. Special features of each unit include: math workouts with 5-minute activities to help students review concepts from previous units; student diversity pages to build a community of learners and provide strategies for students learning English; and technology exploration centres that use commercial software.

• *Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)*

These blackline masters provide students with opportunities to practise concepts and skills explored in the program. Practice pages for each unit, and test pages for the end of each unit, are included. A skills bank section allows for systematic practice of grade level and pre grade level content. A record chart and a comprehensive index are provided.

• *Teacher Support Package*

This set of activity masters, assessment masters and family masters may be used throughout the year. The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities. The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance. The family masters include program and unit introduction letters (also translated into French), blank stationery and activity-specific masters for home activities.

• *Problem of the Week*

Transparencies provide an easy way to display each problem of the week. An answer key is included.

• *Professional Handbook (Revised Edition)*

This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change; Student Behavior and Attitudes; The Teacher's Role; Content; Assessment; Student Diversity; The Role of Technology; Communicating with Parents; Quest 2000 Content Grades K-6; and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.

• *Developing Number Strategies*

This is a teacher resource designed to develop and enhance mental computational skills. There are 160 estimation and mental mathematics activities organized into sets of five—one for each day of the week. Answers are provided with the exercises. These activities are a stand-alone option and do not correlate directly with material in the student book.

• *Exploration Centres: Activity Cards*

This is a set of 60 activity cards that provides a ready-made version of the Exploration Centres described in the teacher's guide and journal at the beginning of each unit. These cards provide further practice and extension activities for the concepts taught in the unit. Activity cards could be used to set up centres.

Comments:

- Students are expected to construct their own methods of estimation and computation. They have to explain and discuss their methods, with the teacher acting as a facilitator.
- Many key ideas are included by implication rather than by explicit statement.
- Addition and subtraction are explored to 12, rather than 18, using general manipulatives, pictures and symbols. The only manipulatives and contexts used for numbers up to 20 are coins to 20 cents for making purchases.
- The resource shows number words and links these to number symbols, but always gives a choice of representing numbers by number words or number symbols. It does not, therefore, include any activities that require the writing of number words.
- A glossary is included in the professional handbook, not the teacher's edition.
- The special role of zero in addition is not addressed and is taken for granted whenever addition and subtraction of 2-digit numbers is done later in the series.

Audience: General

Continued

Continued

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | ✓ | | | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Addison-Wesley Publishers Ltd.

Distributor: Addison-Wesley Longman Pearson

Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: ISBN:

| | |
|------|------------------|
| 1995 | 0201552612 |
| 1995 | 0201552604 |
| 1997 | 020165668X (Set) |
| 1997 | 020155262X |
| 1997 | 0201696029 |
| 1997 | 0201696010 |
| 1999 | 0201477971 |
| 1999 | 0201359995 |

Component Titles:

| | |
|----------------------------------------------------------------------------------------|---------------|
| • Student Book (Revised Edition) | \$10.55 |
| • Teacher's Guide & Journal (Revised Edition) | \$114.45 |
| • Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers) | \$45.75 (Set) |
| • Teacher Support Package | \$45.75 |
| • Problem of the Week | \$45.75 |
| • Professional Handbook (Revised Edition) | \$22.85 |
| • Developing Number Strategies | \$34.95 |
| • Exploration Centres: Activity Cards | \$42.35 |



Assessment Bookshelf Series
Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Teacher Resource

Author(s):

Ainsworth, L.; Christinson, J.

Physical Characteristics:

109 pages, softcover



Annotation:

This professional resource promotes the use of student input for evaluating performance tasks. The resource shows how students can use generated rubrics for guidance as they complete their projects. Sample student work is provided.

Comments:

- This is a teacher resource that could be used across curriculum areas.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: Addison-Wesley Longman

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: 1998

ISBN: 1572329211

Title:

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Est. WCP Price(s):

\$16.11



The Super Source
The Super Source: Geoboards

Teacher Resource

Physical Characteristics:
96 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | | | | | ✓ | | ✓ | |

Publisher: Cuisenaire Company of America, Inc.

Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3

Telephone: (800) 668-0600; (905) 841-0600

Fax: (800) 668-0602; (905) 727-6265

Internet: <http://www.spectrumed.com>

Copyright: ISBN:

1996 1574520067

Title:

The Super Source: Geoboards

Est. WCP Price(s):

\$19.95



The Super Source

The Super Source: Snap Cubes

Teacher Resource

Physical Characteristics:

95 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | | | ✓ |

Publisher: Cuisenaire Company of America, Inc.

Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3

Telephone: (800) 668-0600; (905) 841-0600

Fax: (800) 668-0602; (905) 727-6265

Internet: <http://www.spectrumed.com>

Copyright: 1996
ISBN: 157452013X

Title: The Super Source: Snap Cubes

Est. WCP Price(s): \$19.95



Active Learning Series

The Exclusive Numberline:
Teaching Number Sense and
Numeration: Grades K–3, Ages
5–8

Teacher Resource

Author(s):
Danbrook, C.

Physical Characteristics:
Approximately 150 pages, 3-ring binder



Annotation:

This teacher resource is used to teach number concepts and operations. Each activity includes the focus outcome, presentation of the concept, assessment ideas, as well as a "Big Math Idea." Blackline masters are included, but most activities require minimal preparation.

Comments:

- A floor number line would be helpful.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | | | | | | | | |

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd.
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563–1166; (705) 725–1166
Fax: (705) 725–1167
Internet: <http://www.exclusiveeducational.ca>

Copyright:
1997

Title:
The Exclusive Numberline: Teaching Number
Sense and Numeration: Grades K–3, Ages 5–8

Est. WCP Price(s):
\$34.95



50 Problem Solving Lessons

Annotation:

This is a compilation of open-ended mathematics problem-solving activities, for Grade 1 to Grade 6, that promote critical thinking and use manipulatives.

Audience: Teachers

Teacher Resource

Author(s):

Burns, M.

Physical Characteristics:

183 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | ✓ |

Publisher: Addison-Wesley Longman Ltd.

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: 1996
ISBN: 0941355160

Title: 50 Problem Solving Lessons

Est. WCP Price(s): \$20.79



Graphers (Macintosh/Windows Version)

Depth Resource

Physical Characteristics:

One CD-ROM and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder



Annotation:

This graphing tool allows the user to collect, organize and display data in various forms of charts and graphs appropriate to grade level. It also allows for communicating information about the data in an on-screen notebook. This program features a variety of topics, complete with icons, a split screen to view more than one chart and/or graph, a work space where students can manipulate data, and a teacher's option feature. The teacher resource guide gives sample lessons at grade level, step by step instructions on how to use the program and a set of blackline masters.

Comments:

- This program features a teacher's option that allows the teacher to select graphs according to a student's grade level; select number types—fractions, decimals, per cents; modify data sets; select graphing speed; and change sound options.
- There is one icon in the classroom section, within the data maker tool Counting Data, that displays the American flag; it can be hidden by using the preferences under the edit tool.

System Requirements:

- Macintosh: System 6.0.7 or higher, 68020 processor or higher, 2 MB RAM.
- Windows 3.1: Windows 3.1 or higher, 2 MB RAM.

Audience: General

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | ✓ | |

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7

Telephone: (800) 667-1115 ; (416) 293-8464

Fax: (416) 293-9009

Internet: <http://www.gagelearning.com>

Copyright:

1997

Title:

Graphers (Macintosh/Windows Version)

Est. WCP Price(s):

\$99.95



Measure for Measure: Using
Portfolios in K-8 Mathematics

Annotation:

This is a professional resource for teachers who wish to have information about portfolio assessment in mathematics. It describes how teachers can use portfolios and explain portfolio assessment to students and parents. It also provides information on using rubrics for assessing portfolios.

Teacher Resource

Audience: Teachers

Author(s):

Kuhs, T. M.

Physical Characteristics:

118 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: Heinemann

Distributor: Irwin Publishing
325 Humber College Boulevard
TORONTO, ON, CANADA M9W 7C3

Telephone: (800) 263-7824; (416) 798-0424

Fax: (416) 798-1384

Internet: <http://www.irwin-pub.com>

Copyright: 1997

ISBN: 0435071351

Title:

Measure for Measure: Using Portfolios in K-8
Mathematics

Est. WCP Price(s):

\$27.80



Mighty Math
Mighty Math Carnival Countdown
(Macintosh/Windows School Version)

Depth Resource

Physical Characteristics:

Two CD-ROMs and a manual—
76 pages—all in a 3-ring binder



Annotation:

This program addresses the number concepts, number operations and patterns strands for Kindergarten to Grade 2. The program is easy for students to use; levelling of activities is easy to access and preprogram for students. Sound and graphics are used, and the teacher resource manual is user-friendly.

Comments:

- Outcomes in Grade 1 are limited.

System Requirements:

- Macintosh: System 7.0.1 or higher; 68040, 68030 (25 MHz or faster recommended) or PowerPC; 4 MB RAM (8 MB recommended); 256 colour, 13-inch or larger monitor; double speed CD drive.
- Windows 3.1: 486 (Pentium recommended), hard disk with up to 5 MB free, 8 MB RAM, Super VGA graphics, 256 colour 640 x 480 monitor, double speed CD drive, Windows-compatible sound card.
- Windows 95: 486 (Pentium recommended), hard disk with up to 5 MB free, 8 MB RAM, Super VGA graphics, 256 colour 640 x 480 monitor, double speed CD drive, Windows-compatible sound card.

Audience: General

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | | | | | |

Publisher: Edmark Corporation
Distributor: Edmark Corporation
6727 – 185 Ave NE
REDMOND, WA, USA 98073-9721
Telephone: (800) 426-0856; (425) 556-8436
Fax: (425) 556-8430
Internet: <http://www.edmark.com>

Copyright: 1996
ISBN: 1569262810

Title:
Mighty Math Carnival Countdown
(Macintosh/Windows School Version)

Est. WCP Price(s):
\$59.95 (US)



Tenth Planet Explores Math:

Geometry

Mirror Symmetry (Version 1.0 for Macintosh and Windows)

Depth Resource

Physical Characteristics:

One CD-ROM; Teaching Guide—86 pages, coilbound; Quick Reference Card; "At a Glance" card; Technical Guide—30 pages, softcover—all in a 3-ring binder



Annotation:

This resource allows for an extensive exploration of symmetry and related concepts. It includes a wide range of learning activities that span simple to complex applications. The resource promotes independent learning, critical thinking and connections to real-world situations, and encourages mathematical communication—oral and written. Teacher support materials include a teacher guide that has many extension and assessment tasks, and a computer component that provides flexible class management options.

Comments:

- The teacher support materials can be used for classroom management of specific student tasks and for assessment of individual students.
- The resource provides opportunities for a wide range of student learning needs.
- One activity uses American coins.

System Requirements:

- Macintosh: System 7.1 or higher, Macintosh LC II or higher (25 MHz 68030 processor or better), 8 MB RAM (5 MB available), 256 colour 13-inch monitor, double speed CD drive, approximately 14 MB free hard disk space, microphone (built-in or external).
- Windows 3.1: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.
- Windows 95: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.

Audience: General/ESL/Gifted/LD/ID (Mild)

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | ✓ | | |

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7

Telephone: (800) 667-1115 ; (416) 293-8464

Fax: (416) 293-9009

Internet: <http://www.gagelearning.com>

Copyright: 1997–1998

ISBN: 188861868X
(Teaching Guide)

Title:

Mirror Symmetry (Version 1.0 for Macintosh and Windows)

Est. WCP Price(s):

\$99.95



Quest 2000: Exploring Mathematics (Grade 2)

- Student Book
- Teacher's Guide & Journal (Revised Edition)
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Problem of the Week
- Professional Handbook (Revised Edition)
- Developing Number Strategies
- Exploration Centres: Activity Cards (Revised Edition)



Breadth and Depth Resource

Author(s):

Wortzman, R. et al.

Physical Characteristics:

- Student Book—103 pages, softcover
- Teacher's Guide & Journal—464 pages, coilbound
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition)—232 pages each, softcover
- Teacher Support Package—155 pages, softcover
- Problem of the Week—32 transparencies
- Professional Handbook—96 pages, softcover
- Developing Number Strategies—Approximately 100 pages, small format, coilbound
- Exploration Centres: Activity Cards (Revised Edition)—Approximately 150 pages, loose



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Access to Publisher's Disks for Production

Annotation:

This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking, and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eleven units, built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level. Technology suggestions are included.

• *Student Book*

This supports student work by providing real-world problems, data, vocabulary and a variety of visual representations. Students can record their feelings, thinking and understandings. Family notes suggest home activities to extend or reinforce learning.

• *Teacher's Guide & Journal*

This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities and assessing ongoing performance. Classroom management ideas are included and journal notes facilitate observations and planning. Special features of each unit include: math workouts with 5-minute activities to help students review concepts from previous units; student diversity pages to build a community of learners and provide strategies for students learning English; technology exploration centres that use commercial software.

• *Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)*

These blackline masters provide students with opportunities to practise concepts and skills explored in the program. Practice pages for each unit, and test pages for the end of each unit, are included. A skills bank section allows for systematic practice of grade level and pre grade level content. A record chart and a comprehensive index are provided.

• *Teacher Support Package*

This set of activity masters, assessment masters and family masters may be used throughout the year. The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities. The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance. The family masters include program and unit introduction letters (also translated into French), blank stationery and activity-specific masters for home activities.

• *Problem of the Week*

Transparencies provide an easy way to display each problem of the week. An answer key is included.

• *Professional Handbook (Revised Edition)*

This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change; Student Behavior and Attitudes; The Teacher's Role; Content; Assessment; Student Diversity; The Role of Technology; Communicating with Parents; Quest 2000 Content Grades K-6; and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.

• *Developing Number Strategies*

This is a teacher resource designed to develop and enhance mental computational skills. There are 160 estimation and mental mathematics activities organized into sets of five—one for each day of the week. Answers are provided with the exercises. These activities are a stand-alone option and do not correlate directly with material in the student book.

• *Exploration Centres: Activity Cards (Revised Edition)*

This is a set of 61 activity cards that provide a ready-made version of the Exploration Centres described in the teacher's guide and journal at the beginning of each unit. These cards provide further practice and extension activities for the concepts taught in the unit. Activity cards could be used to set up centres.

Comments:

- Students are expected to construct their own methods of estimation and computation. They have to explain and discuss their methods, with the teacher acting as a facilitator. This even applies in cases where there have been conventional methods used, such as the trading of ones for tens in addition, or the splitting of tens into ones for subtraction.
- Many key ideas are included by implication rather than by explicit statement. Key ideas are included in the teacher materials but are not included in the student book. Vocabulary development is confined to the teacher materials.
- Activities, rather than written materials, are the focus of the program.
- A glossary is included in the professional handbook, not the teacher's edition.

Audience: General

Continued

Continued

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | ✓ | | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Addison-Wesley Publishers Ltd.

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: ISBN:

| | |
|------|------------------|
| 1996 | 0201552639 |
| 1996 | 0201552647 |
| 1997 | 0201656698 (Set) |
| 1997 | 0201552655 |
| 1997 | 0201696037 |
| 1997 | 0201696010 |
| 1999 | 020147798X |
| 1998 | 0201360004 |

Component Titles:

- Student Book
- Teacher's Guide & Journal (Revised Edition)
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Problem of the Week
- Professional Handbook (Revised Edition)
- Developing Number Strategies
- Exploration Centres: Activity Cards (Revised Edition)

Est. WCP Price(s):

| |
|---------------|
| \$10.55 |
| \$114.45 |
| \$45.75 (Set) |
| \$45.75 |
| \$45.75 |
| \$22.85 |
| \$34.95 |
| \$42.35 |



*Solutions & Extensions for
Illustrative Examples from the
Western Canadian Protocol*
Solutions & Extensions for
Illustrative Examples from the
Western Canadian Protocol:
Grade 2

Teacher Resource

Author(s):

Hauk, C. M.; Quinn, B. A.

Physical Characteristics:

46 pages, coilbound



**Availability in Alternate Format(s) for
Students Who Are Visually Impaired, Print
Disabled or Hearing Impaired:**

- Access to Publisher's Disks for Production

Annotation:

This resource provides assistance for teachers in implementing the Common Curriculum Framework. Keyed directly to each illustrative example, it provides teachers with solutions, including diagrams, tables, interpretations and suggestions for concept development. This resource highlights the mathematical processes—communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization—that are associated with the corresponding specific outcomes. For added convenience, each page of this resource is cross-referenced to the page where the respective illustrative example appears in the Common Curriculum Framework.

Comments:

- This resource must be used directly with the original June 1995 Common Curriculum Framework, and not in connection with any documents derived from the Common Curriculum Framework and produced by individual jurisdictions.

Cautions:

- In a number of places there is scope for valid alternative methods of solving the illustrative examples. Sometimes the authors provide only one solution where more than one solution may be valid. Teachers should be aware of this, and should always remain respectful of valid alternative methods for solving the illustrative examples.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | ✓ | | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: C. Marie Hauk; Bryan A. Quinn

Distributor: Math Alive
315 Dechene Road
EDMONTON, AB, CANADA T6M 1W3

Telephone: (780) 487-8841

Fax: (780) 481-9913

Copyright:

1999

Title:

Solutions & Extensions for Illustrative
Examples from the Western Canadian
Protocol: Grade 2

Est. WCP Price(s):

\$9.75



Assessment Bookshelf Series

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Teacher Resource

Author(s):

Ainsworth, L.; Christinson, J.

Physical Characteristics:

109 pages, softcover



Annotation:

This professional resource promotes the use of student input for evaluating performance tasks. The resource shows how students can use generated rubrics for guidance as they complete their projects. Sample student work is provided.

Comments:

- This is a teacher resource that could be used across curriculum areas.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: Addison-Wesley Longman

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: 1998

ISBN: 1572329211

Title:

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Est. WCP Price(s):

\$16.11



The Super Source

The Super Source: Geoboards

Teacher Resource

Physical Characteristics:

96 pages, softcover



Annotation:

This is a teacher resource for using geoboards to teach the Number, Shape and Space, and Statistics and Probability strands. It provides ideas for assessment and provides links to other curriculum areas.

Comments:

- The resource does not include a set of geoboards.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | | | | | ✓ | | ✓ | |

Publisher: Cuisenaire Company of America, Inc.

Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3

Telephone: (800) 668-0600; (905) 841-0600

Fax: (800) 668-0602; (905) 727-6265

Internet: <http://www.spectrumed.com>

Copyright: 1996

ISBN: 1574520067

Title:

The Super Source: Geoboards

Est. WCP Price(s):

\$19.95



The Super Source

The Super Source: Snap Cubes

Teacher Resource

Physical Characteristics:

95 pages, softcover



Annotation:

This teacher resource provides a set of activities with snap cubes. While the activities are episodic rather than systematic, the resource shows how some learning outcomes can be supported through the use of snap cubes. Activities are often challenging.

Comments:

- The resource does not include a set of snap cubes.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | | | ✓ |

Publisher: Cuisenaire Company of America, Inc.

Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3

Telephone: (800) 668-0600; (905) 841-0600

Fax: (800) 668-0602; (905) 727-6265

Internet: <http://www.spectrumed.com>

Copyright: ISBN:
1996 157452013X

Title:
The Super Source: Snap Cubes

Est. WCP Price(s):
\$19.95



Writing in Math Class: A
Resource for Grades 2-8

Annotation:

This teacher resource presents strategies to assist teachers in making writing a part of their mathematics instruction. It explains why students should write in mathematics class and offers tips and suggestions for teachers. The sample lessons provided encourage students to demonstrate the mathematical processes cited in the Common Curriculum Framework.

Teacher Resource

Author(s):

Burns, M.

Physical Characteristics:

197 pages, softcover



Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: 1995

ISBN: 0941355136 (Math Solutions Publications)
0201872323 (Addison-Wesley Longman)

Title:

Writing in Math Class: A Resource for
Grades 2-8

Est. WCP Price(s):

\$25.83



Active Learning Series

The Exclusive Numberline:
Teaching Number Sense and
Numeration: Grades K–3, Ages
5–8

Teacher Resource

Author(s):

Danbrook, C.

Physical Characteristics:

Approximately 150 pages, 3-ring binder



Annotation:

This teacher resource is used to teach number concepts and operations. Each activity includes the focus outcome, presentation of the concept, assessment ideas, as well as a "Big Math Idea." Blackline masters are included, but most activities require minimal preparation.

Comments:

- A floor number line would be helpful.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | | | | | | | | |

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products Ltd.
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3

Telephone: (800) 563–1166; (705) 725–1166

Fax: (705) 725–1167

Internet: <http://www.exclusiveeducational.ca>

Copyright:

1997

Title:

The Exclusive Numberline: Teaching Number
Sense and Numeration: Grades K–3, Ages 5–8

Est. WCP Price(s):

\$34.95



50 Problem Solving Lessons

Annotation:

This is a compilation of open-ended mathematics problem-solving activities, for Grade 1 to Grade 6, that promote critical thinking and use manipulatives.

Teacher Resource

Author(s):

Burns, M.

Audience: Teachers

Physical Characteristics:

183 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | ✓ |

Publisher: Addison-Wesley Longman Ltd.

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Copyright: 1996

ISBN: 0941355160

Title:

50 Problem Solving Lessons

Est. WCP Price(s):

\$20.79

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>



**Gage Mathematics Assessment
(Grade 3)**

- Assessment Activities 3A
- Assessment Activities 3B
- Teacher's Resource Book: Grade 3

Teacher Resource

Author(s):

Flewelling, G.; Lind, J.; Sauer, R.

Physical Characteristics:

- Assessment Activities 3A—48 pages, paperback
- Assessment Activities 3B—44 pages, softcover
- Teacher's Resource Book: Grade 3—Approximately 200 pages, softcover



**Availability in Alternate Format(s) for
Students Who Are Visually Impaired, Print
Disabled or Hearing Impaired:**

- Access to Publisher's Disks for Production

Annotation:

Gage Mathematics Assessment (Grade 3) provides teachers with a bank of authentic assessment tasks for Grade 3 students. The activities allow teachers to assess in all four strands of the Common Curriculum Framework. Rubrics and student response samples are provided for each task. The 78 tasks (3A) are available in booklet form or as reproducible masters in the teacher's resource book. The 3B tasks are available in a small student book and can be used for homework projects.

Comments:

- Venn diagram DMP 301-1 is labelled incorrectly.
- 3-D geometry is not included.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | ✓ | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | | | ✓ | ✓ |

Publisher: Gage Educational Publishing Co.

Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7

Telephone: (800) 667-1115 ; (416) 293-8464

Fax: (416) 293-9009

Internet: <http://www.gagelearning.com>

Copyright: ISBN:

1999 0771533640
1999 0771533624
1999 0771533632

Component Titles:

- Assessment Activities 3A
- Assessment Activities 3B
- Teacher's Resource Book: Grade 3

Est. WCP Price(s):

\$3.95
\$9.95
\$89.95



Graphers (Macintosh/Windows Version)

Depth Resource

Physical Characteristics:

One CD-ROM and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder



Annotation:

This graphing tool allows the user to collect, organize and display data in various forms of charts and graphs appropriate to grade level. It also allows for communicating information about the data in an on-screen notebook. This program features a variety of topics, complete with icons, a split screen to view more than one chart and/or graph, a work space where students can manipulate data, and a teacher's option feature. The teacher resource guide gives sample lessons at grade level, step by step instructions on how to use the program and a set of blackline masters.

Comments:

- This program features a teacher's option that allows the teacher to select graphs according to a student's grade level; select number types—fractions, decimals, per cents; modify data sets; select graphing speed; and change sound options.
- There is one icon in the classroom section, within the data maker tool Counting Data, that displays the American flag; it can be hidden by using the preferences under the edit tool.

System Requirements:

- Macintosh: System 6.0.7 or higher, 68020 processor or higher, 2 MB RAM.
- Windows 3.1: Windows 3.1 or higher, 2 MB RAM.

Audience: General

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | ✓ | |

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7

Telephone: (800) 667-1115 ; (416) 293-8464

Fax: (416) 293-9009

Internet: <http://www.gagelearning.com>

Copyright:

1997

Title:

Graphers (Macintosh/Windows Version)

Est. WCP Price(s):

\$99.95



Measure for Measure: Using
Portfolios in K-8 Mathematics

Teacher Resource

Author(s):

Kuhs, T. M.

Audience: Teachers

Physical Characteristics:

118 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: Heinemann

Distributor: Irwin Publishing
325 Humber College Boulevard
TORONTO, ON, CANADA M9W 7C3

Telephone: (800) 263-7824; (416) 798-0424

Fax: (416) 798-1384

Internet: <http://www.irwin-pub.com>

Copyright: ISBN:

1997 0435071351

Title:

Measure for Measure: Using Portfolios in K-8
Mathematics

Est. WCP Price(s):

\$27.80



Tenth Planet Explores Math:
Geometry
Mirror Symmetry (Version 1.0 for
Macintosh and Windows)

Depth Resource

Physical Characteristics:

One CD-ROM; Teaching Guide—86
pages, coilbound; Quick Reference Card;
"At a Glance" card; Technical Guide—30
pages, softcover—all in a 3-ring binder



Annotation:

This resource allows for an extensive exploration of symmetry and related concepts. It includes a wide range of learning activities that span simple to complex applications. The resource promotes independent learning, critical thinking and connections to real-world situations, and encourages mathematical communication—oral and written. Teacher support materials include a teacher guide that has many extension and assessment tasks, and a computer component that provides flexible class management options.

Comments:

- The teacher support materials can be used for classroom management of specific student tasks and for assessment of individual students.
- The resource provides opportunities for a wide range of student learning needs.
- One activity uses American coins.

System Requirements:

- Macintosh: System 7.1 or higher, Macintosh LC II or higher (25 MHz 68030 processor or better), 8 MB RAM (5 MB available), 256 colour 13-inch monitor, double speed CD drive, approximately 14 MB free hard disk space, microphone (built-in or external).
- Windows 3.1: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.
- Windows 95: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.

Audience: General/ESL/Gifted/LD/ID (Mild)

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | ✓ | | |

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7

Telephone: (800) 667-1115 ; (416) 293-8464

Fax: (416) 293-9009

Internet: <http://www.gagelearning.com>

Copyright: 1997-1998

ISBN: 188861868X
(Teaching Guide)

Title:

Mirror Symmetry (Version 1.0 for Macintosh
and Windows)

Est. WCP Price(s):

\$99.95



Quest 2000: Exploring Mathematics (Grade 3)

- Student Book (Revised Edition)
- Teacher's Guide & Journal
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Technology Package
- Problem of the Week
- Professional Handbook (Revised Edition)
- Developing Number Strategies
- Exploration Centres: Activity Cards (Revised Edition)



Breadth and Depth Resource

Author(s):

Wortzman, R. et al.

Physical Characteristics:

- Student Book—268 pages, hardcover
- Teacher's Guide & Journal—480 pages, coilbound
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition)—197 pages each, softcover
- Teacher Support Package—107 pages, softcover
- Technology Package—34 pages, softcover, one 3.5" IBM disc, one 3.5" Macintosh disc
- Problem of the Week—32 transparencies
- Professional Handbook—96 pages, softcover
- Developing Number Strategies—Approximately 150 pages, small format, coilbound
- Exploration Centres: Activity Cards (Revised Edition)—Approximately 150 pages, loose



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Access to Publisher's Disks for Production

Annotation:

This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking, and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eleven units, built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level. Technology suggestions are included.

• Student Book

The student book supports student activity, but does not define it, and is not intended to be a traditional text. The book may illustrate the unit question, present data to be used in completing the activity, explain a game, clarify vocabulary visually or suggest a possible recording format. The student book provides On Your Own Problems for students to solve and Practise Your Skills questions for practising mathematical skills independently at home or in class. Also included are a problem bank and skill bank at the end of each unit and questions for journal writing.

• Teacher's Guide & Journal

This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities, and assessing ongoing performance. Classroom management ideas are included, and journal notes facilitate observations and planning. Special features of each unit include: math workouts with 5-minute activities to help students review concepts from previous units; student diversity pages to build a community of learners and provide strategies for students learning English; and technology exploration centres that use commercial software.

• Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)

These blackline masters provide students with opportunities to practise concepts and skills explored in the program. Practice pages for each unit, and test pages for the end of each unit, are included. A skills bank section allows for systematic practice of grade level and pre grade level content. A record chart and a comprehensive index are provided.

• Teacher Support Package

This set of activity masters, assessment masters and family masters may be used throughout the year. The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities. The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance. The family masters include program and unit introduction letters (also translated into French) and blank stationery.

• Technology Package

The technology activities were created for ClarisWorks and Microsoft Works applications programs, including word processing; spreadsheet; draw, paint, and database environments. Exploration centres file discs are included.

• Problem of the Week

Transparencies provide an easy way to display each problem of the week. An answer key is included.

• Professional Handbook (Revised Edition)

This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change; Student Behavior and Attitudes; The Teacher's Role; Content; Assessment; Student Diversity; The Role of Technology; Communicating with Parents; Quest 2000 Content Grades K-6; and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.

• Developing Number Strategies

This is a teacher resource designed to develop and enhance mental computational skills. There are 160 estimation and mental mathematics activities organized into sets of five—one for each day of the week. Answers are provided with the exercises. These activities are a stand-alone option and do not correlate directly with material in the student book.

• Exploration Centres: Activity Cards (Revised Edition)

This is a set of 68 activity cards that provide a ready-made version of the Exploration Centres described in the teacher's guide and journal at the beginning of each unit. These cards provide further practice and extension activities for the concepts taught in the unit. Activity cards could be used to set up centres.

Comments:

- Students are expected to construct their own methods of estimation and computation. They have to explain and discuss their methods used, with the teacher acting as a facilitator. This even applies in cases where there have been conventional methods used, such as the trading of ones for tens in addition, or the splitting of tens into ones for subtraction.
- Many key ideas are included by implication rather than by explicit statement. Key ideas are included in the teacher materials but are not included in the student book. Vocabulary development is confined to the teacher materials.
- A glossary is included in the professional handbook, not the teacher's edition.
- The concepts related to the metric system of measurement are embedded in student tasks and are not made explicit.

Continued

Continued

Cautions:

- The software package was designed for Microsoft Works or ClarisWorks, and requires considerable preparatory work before students can use it.

System Requirements:

- Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, either ClarisWorks v2.0 or higher, or Microsoft Works v3.0 or higher.
- Windows 3.1: 386/33 MHz, 4 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher.
- Windows 95: 486/50 MHz (Pentium recommended), 8 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher.

Audience: General

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | ✓ | | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Addison-Wesley Publishers Ltd.

Distributor: Addison-Wesley Longman Pearson Education
 26 Prince Andrew Place
 P.O. Box 580
 DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: ISBN:

| | |
|------|------------------|
| 1996 | 0201552663 |
| 1996 | 0201552671 |
| 1997 | 0201656701 (Set) |
| 1997 | 020155268X |
| 1997 | 0201892438 |
| 1997 | 0201696045 |
| 1997 | 0201696010 |
| 1999 | 0201477998 |
| 1998 | 0201360012 |

Component Titles:

| | |
|----------------------------------------------------------------------------------------|---------------|
| • Student Book (Revised Edition) | \$24.35 |
| • Teacher's Guide & Journal | \$114.45 |
| • Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers) | \$45.75 (Set) |
| • Teacher Support Package | \$45.75 |
| • Technology Package | \$49.20 |
| • Problem of the Week | \$45.75 |
| • Professional Handbook (Revised Edition) | \$22.85 |
| • Developing Number Strategies | \$34.95 |
| • Exploration Centres: Activity Cards (Revised Edition) | \$42.35 |

Est. WCP Price(s):



*Solutions & Extensions for
Illustrative Examples from the
Western Canadian Protocol*
Solutions & Extensions for
Illustrative Examples from the
Western Canadian Protocol:
Grade 3

Teacher Resource

Author(s):

Hauk, C. M.; Quinn, B. A.

Physical Characteristics:

46 pages, coilbound



**Availability in Alternate Format(s) for
Students Who Are Visually Impaired, Print
Disabled or Hearing Impaired:**

- Access to Publisher's Disks for Production

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | ✓ | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |

Annotation:

This resource provides assistance for teachers in implementing the Common Curriculum Framework. Keyed directly to each illustrative example, it provides teachers with solutions, including diagrams, tables, interpretations and suggestions for concept development. This resource highlights the mathematical processes—communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization—that are associated with the corresponding specific outcomes. For added convenience, each page of this resource is cross-referenced to the page where the respective illustrative example appears in the Common Curriculum Framework.

Comments:

- This resource must be used directly with the original June 1995 Common Curriculum Framework, and not in connection with any documents derived from the Common Curriculum Framework and produced by individual jurisdictions.

Cautions:

- In a number of places there is scope for valid alternative methods of solving the illustrative examples. Sometimes the authors provide only one solution where more than one solution may be valid. Teachers should be aware of this, and should always remain respectful of valid alternative methods for solving the illustrative examples.

Audience: Teachers

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: C. Marie Hauk; Bryan A. Quinn

Distributor: Math Alive
315 Dechene Road
EDMONTON, AB, CANADA T6M 1W3

Telephone: (780) 487-8841

Fax: (780) 481-9913

Copyright:

1999

Title:

Solutions & Extensions for Illustrative
Examples from the Western Canadian
Protocol: Grade 3

Est. WCP Price(s):

\$9.75



Assessment Bookshelf Series

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Teacher Resource

Author(s):

Ainsworth, L.; Christinson, J.

Physical Characteristics:

109 pages, softcover



Annotation:

This professional resource promotes the use of student input for evaluating performance tasks. The resource shows how students can use generated rubrics for guidance as they complete their projects. Sample student work is provided.

Comments:

- This is a teacher resource that could be used across curriculum areas.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: Addison-Wesley Longman

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: 1998

ISBN: 1572329211

Title:

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Est. WCP Price(s):

\$16.11



The Super Source

The Super Source: Snap Cubes

Teacher Resource

Physical Characteristics:

95 pages, softcover



Annotation:

This teacher resource provides a set of activities with snap cubes. While the activities are episodic rather than systematic, the resource shows how some learning outcomes can be supported through the use of snap cubes. Activities are often challenging.

Comments:

- The resource does not include a set of snap cubes.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | | | ✓ |

Publisher: Cuisenaire Company of America, Inc.

Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3

Telephone: (800) 668-0600; (905) 841-0600

Fax: (800) 668-0602; (905) 727-6265

Internet: <http://www.spectrumed.com>

Copyright: ISBN:

1996 157452013X

Title:

The Super Source: Snap Cubes

Est. WCP Price(s):

\$19.95



Writing in Math Class: A
Resource for Grades 2–8

Annotation:

This teacher resource presents strategies to assist teachers in making writing a part of their mathematics instruction. It explains why students should write in mathematics class and offers tips and suggestions for teachers. The sample lessons provided encourage students to demonstrate the mathematical processes cited in the Common Curriculum Framework.

Teacher Resource

Author(s):

Burns, M.

Audience: Teachers

Physical Characteristics:

197 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: 1995

ISBN: 0941355136 (Math Solutions Publications)
0201872323 (Addison-Wesley Longman)

Title:

Writing in Math Class: A Resource for
Grades 2–8

Est. WCP Price(s):

\$25.83



Data Explorer (Version 1.1 for Macintosh and Windows)

Depth Resource

Physical Characteristics:

One CD-ROM and a Teacher's Guide—204 pages—all in a 3-ring binder



Annotation:

This resource is a very useful tool for collecting and representing data in graphs. Students create and administer surveys, either on paper or on the computer; input the data, if collected on paper; and then manipulate it to create graphic representations. An electronic notebook allows students to complete an analysis on-screen. The program supports line plots, with icon choices, bar graphs, histograms, broken line graphs, box and whisker plots, stem and leaf plots, scatter plots, Venn diagrams, circle graphs and tables.

Comments:

- The teacher support material includes a reference section that provides explanations of the functions of the program.
- The program often chooses axes that do not start at 0. This can be adjusted in some of the types of graphs.
- The program content extends beyond Grade 6.

System Requirements:

- Macintosh: System 7.0 or higher, 68040 processor or better, 33 MHz, 3.5 MB RAM, 256 colour 640 x 480 monitor.
- Windows 3.1: Windows 3.1 or higher, 386 processor or better, 256 colour 640 x 480 monitor.
- Windows 95: Windows 95 or higher, 486 processor or better (Pentium recommended), 256 colour 640 x 480 monitor.

Audience: General

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | ✓ | |

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7

Telephone: (800) 667-1115 ; (416) 293-8464

Fax: (416) 293-9009

Internet: <http://www.gagelearning.com>

Copyright:

1998

Title:

Data Explorer (Version 1.1 for Macintosh and Windows)

Est. WCP Price(s):

\$119.95



50 Problem Solving Lessons

Teacher Resource

Author(s):

Burns, M.

Physical Characteristics:

183 pages, softcover



Annotation:

This is a compilation of open-ended mathematics problem-solving activities, for Grade 1 to Grade 6, that promote critical thinking and use manipulatives.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | ✓ |

Publisher: Addison-Wesley Longman Ltd.

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: 1996

ISBN: 0941355160

Title:

50 Problem Solving Lessons

Est. WCP Price(s):

\$20.79



Graphers (Macintosh/Windows Version)

Annotation:

This graphing tool allows the user to collect, organize and display data in various forms of charts and graphs appropriate to grade level. It also allows for communicating information about the data in an on-screen notebook. This program features a variety of topics, complete with icons, a split screen to view more than one chart and/or graph, a work space where students can manipulate data, and a teacher's option feature. The teacher resource guide gives sample lessons at grade level, step by step instructions on how to use the program and a set of blackline masters.

Depth Resource

Physical Characteristics:

One CD-ROM and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder



Comments:

- This program features a teacher's option that allows the teacher to select graphs according to a student's grade level; select number types—fractions, decimals, per cents; modify data sets; select graphing speed; and change sound options.
- There is one icon in the classroom section, within the data maker tool Counting Data, that displays the American flag; it can be hidden by using the preferences under the edit tool.

System Requirements:

- Macintosh: System 6.0.7 or higher, 68020 processor or higher, 2 MB RAM.
- Windows 3.1: Windows 3.1 or higher, 2 MB RAM.

Audience: General

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | ✓ | |

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7

Telephone: (800) 667-1115 ; (416) 293-8464

Fax: (416) 293-9009

Internet: <http://www.gagelearning.com>

Copyright:

1997

Title:

Graphers (Macintosh/Windows Version)

Est. WCP Price(s):

\$99.95



In the Balance

- In the Balance: Algebra Logic Puzzles: Grades 4–6
- In the Balance: Algebra Logic Puzzles: Grades 7–9

Teacher Resource

Author(s):

Kroner, L.

Physical Characteristics:

- In the Balance: Algebra Logic Puzzles: Grades 4–6—78 pages, coilbound
- In the Balance: Algebra Logic Puzzles: Grades 7–9—78 pages, coilbound



Annotation:

Each of these resources contains 25 reproducible logic-based number puzzles ranging from the simple to the very complex. These are extension activities that support a number of the Common Curriculum Framework mathematical processes.

Comments:

- These resources can also be used at the senior high school level in Relations and Functions.
- It would be beneficial to have both the Grades 4–6 booklet and the Grades 7–9 booklet, as it is necessary to introduce the puzzles at a simple stage of complexity—Grades 4–6—before teaching at the more complex—Grades 7–9—level.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | | ✓ | | | | | | |

Publisher: Creative Publications

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: ISBN:

1997 0762205512

1997 0762205520

Component Titles:

- In the Balance: Algebra Logic Puzzles: Grades 4–6
- In the Balance: Algebra Logic Puzzles: Grades 7–9

Est. WCP Price(s):

\$22.05

\$22.05



Kay Toliver Files 2

- Distance, Time and Speed
- Statistics
- Circles
- Decimals
- Kay Toliver Files 2: Teacher's Guide

Teacher Resource

Physical Characteristics:

- Distance, Time and Speed—One 15-minute videocassette
- Statistics—One 15-minute videocassette
- Circles—One 15-minute videocassette
- Decimals—One 15-minute videocassette
- Kay Toliver Files 2: Teacher's Guide—48 pages, softcover



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Closed captioned

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: PBS Video

Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4

Telephone: (800) 668-0749; (416) 252-5907

Fax: (416) 251-3720

Internet: <http://www.visualed.com/>

Copyright: 1998

ISBN: 079362858X

Component Titles:

- Distance, Time and Speed
- Statistics
- Circles
- Decimals
- Kay Toliver Files 2: Teacher's Guide

Est. WCP Price(s):

\$125.00
\$125.00
\$125.00
\$125.00
No charge with series purchase.

Annotation:

These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:

- Imperial measures are used in some videos.

Cautions:

- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers



Kay Toliver Files 3

- Patterns
- Length and Area
- Volume
- The Counting Principle
- Kay Toliver Files 3: Teacher's Guide

Teacher Resource

Physical Characteristics:

- Patterns—One 15-minute videocassette
- Length and Area—One 15-minute videocassette
- Volume—One 15-minute videocassette
- The Counting Principle—One 15-minute videocassette
- Kay Toliver Files 3: Teacher's Guide—48 pages, softcover



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Closed captioned

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | | |

Annotation:

These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:

- Imperial measures are used in some videos.

Cautions:

- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: PBS Video

Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4

Telephone: (800) 668-0749; (416) 252-5907

Fax: (416) 251-3720

Internet: <http://www.visualed.com/>

Copyright: ISBN:

1998

1998

1998

1998

1998 0793628598

Component Titles:

- Patterns
- Length and Area
- Volume
- The Counting Principle
- Kay Toliver Files 3: Teacher's Guide

Est. WCP Price(s):

\$125.00

\$125.00

\$125.00

\$125.00

No charge with series purchase.

Kay Toliver Files 4

- Variables
- Ratios
- Charts and Graphs
- Percents
- Kay Toliver Files 4: Teacher's Guide

Teacher Resource

Physical Characteristics:

- Variables—One 15-minute videocassette
- Ratios—One 15-minute videocassette
- Charts and Graphs—One 15-minute videocassette
- Percents—One 15-minute videocassette
- Kay Toliver Files 4: Teacher's Guide—48 pages, softcover



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Closed captioned

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: PBS Video

Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4

Telephone: (800) 668-0749; (416) 252-5907

Fax: (416) 251-3720

Internet: <http://www.visualed.com/>

Copyright: ISBN:

1998

1998

1998

1998

1998 0793629985

Component Titles:

- Variables
- Ratios
- Charts and Graphs
- Percents
- Kay Toliver Files 4: Teacher's Guide

Est. WCP Price(s):

\$125.00

\$125.00

\$125.00

\$125.00

No charge with series purchase.

GRADE 4 - LEARNING AND TEACHING RESOURCES

Annotation:

These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:

- Imperial measures are used in some videos.

Cautions:

- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers



Math by All Means

Math by All Means: Area and Perimeter: Grades 5-6

Annotation:

This teacher resource presents strategies for and sample lessons on helping children learn about perimeter, area and the relationships between them. Each lesson consists of an overview, before the lesson preparation, introductory activity, lesson, class or student reflection, and assessments. The activities encourage students to have hands-on experiences and to develop critical thinking skills.

Teacher Resource

Author(s):

Rectanus, C.

Audience: Teachers

Physical Characteristics:

198 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | ✓ | | | | |

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Copyright: ISBN:

1994 0941355187

Title:

Math by All Means: Area and Perimeter:
Grades 5-6

Est. WCP Price(s):

\$32.27

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>



Math On the Go II: Junior:
Grades 4–6, Ages 9–11

Annotation:

Math On the Go II is a collection of student activity cards. The cards are colour-coded according to the strands—Number Sense and Numeration, Geometry and Spatial Sense, Patterning and Algebra, Measurement, Data Management and Probability, and Problem Solving. Blackline masters are included. Most of the activities use everyday materials. Every strand also has a materials list.

Teacher Resource

Author(s):

Millar, N.; Moore, N.; Morrow, P.

Audience: Teachers

Physical Characteristics:

Approximately 200 pages, loose, in a plastic case



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products Ltd.
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3

Telephone: (800) 563–1166; (705) 725–1166

Fax: (705) 725–1167

Internet: <http://www.exclusiveducational.ca>

Copyright:

1998

Title:

Math On the Go II: Junior: Grades 4–6,
Ages 9–11

Est. WCP Price(s):

\$59.95



Measure for Measure: Using
Portfolios in K-8 Mathematics

Teacher Resource

Author(s):
Kuks, T. M.

Audience: Teachers

Physical Characteristics:
118 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: Heinemann
Distributor: Irwin Publishing
325 Humber College Boulevard
TORONTO, ON, CANADA M9W 7C3
Telephone: (800) 263-7824; (416) 798-0424
Fax: (416) 798-1384
Internet: <http://www.irwin-pub.com>

Copyright: 1997
ISBN: 0435071351

Title:
Measure for Measure: Using Portfolios in K-8
Mathematics

Est. WCP Price(s):
\$27.80



Tenth Planet Explores Math:
Geometry
Mirror Symmetry (Version 1.0 for
Macintosh and Windows)

Depth Resource

Physical Characteristics:

One CD-ROM; Teaching Guide—86
pages, coilbound; Quick Reference Card;
"At a Glance" card; Technical Guide—30
pages, softcover—all in a 3-ring binder



Annotation:

This resource allows for an extensive exploration of symmetry and related concepts. It includes a wide range of learning activities that span simple to complex applications. The resource promotes independent learning, critical thinking and connections to real-world situations, and encourages mathematical communication—oral and written. Teacher support materials include a teacher guide that has many extension and assessment tasks, and a computer component that provides flexible class management options.

Comments:

- The teacher support materials can be used for classroom management of specific student tasks and for assessment of individual students.
- The resource provides opportunities for a wide range of student learning needs.
- One activity uses American coins.

System Requirements:

- Macintosh: System 7.1 or higher, Macintosh LC II or higher (25 MHz 68030 processor or better), 8 MB RAM (5 MB available), 256 colour 13-inch monitor, double speed CD drive, approximately 14 MB free hard disk space, microphone (built-in or external).
- Windows 3.1: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.
- Windows 95: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.

Audience: General/ESL/Gifted/LD/ID (Mild)

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | ✓ | | |

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7

Telephone: (800) 667-1115 ; (416) 293-8464

Fax: (416) 293-9009

Internet: <http://www.gagelearning.com>

Copyright: 1997-1998

ISBN: 188861868X
(Teaching Guide)

Title:

Mirror Symmetry (Version 1.0 for Macintosh
and Windows)

Est. WCP Price(s):

\$99.95



Quest 2000: Exploring Mathematics (Grade 4)

• Student Book

• Teacher's Guide & Journal; Solutions Manual
• Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
• Teacher Support Package

• Technology Package

• Problem of the Week

• Professional Handbook (Revised Edition)

• Developing Number Strategies

• Exploration Centres: Activity Cards (Revised Edition)



Breadth and Depth Resource

Author(s):

Wortzman, R. et al.

Physical Characteristics:

- Student Book—288 pages, hardcover
- Teacher's Guide & Journal—464 pages, coilbound; Solutions Manual—68 pages, softcover
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition)—184 pages each, softcover
- Teacher Support Package—111 pages, softcover
- Technology Package—32 pages, softcover, two 3.5" program discs
- Problem of the Week—32 transparencies
- Professional Handbook—96 pages, softcover
- Developing Number Strategies—Approximately 150 pages, softcover, small format
- Exploration Centres: Activity Cards (Revised Edition)—Approximately 150 pages, loose



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Access to Publisher's Disks for Production

Annotation:

This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eleven units, built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level. Technology suggestions are included.

• *Student Book*

The student book supports student activity, but does not define it, and is not intended to be a traditional text. The book may illustrate the unit question, present data to be used in completing the activity, explain a game, clarify vocabulary visually or suggest a possible recording format. The student book provides On Your Own Problems for students to solve and Practise Your Skills questions for practising mathematical skills independently at home or in class. At the end of each unit are a problem bank, a skill bank and questions for journal writing.

• *Teacher's Guide & Journal*

This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities and assessing ongoing performance. Classroom management ideas are included, and journal notes facilitate observations and planning. Special features of each unit include: mathematics workouts with 5-minute activities to help students review concepts from previous units; student diversity pages to build a community of learners and provide strategies for students learning English; and exploration centres, some of which use commercial software.

• *Solutions Manual*

This manual provides answers to questions presented in the Student Book. In instances where many solutions are possible, sample responses are provided.

• *Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)*

These blackline masters provide students with opportunities to practise concepts and skills explored in the program. Practice pages for each unit, and test pages for the end of each unit, are included. A skills bank section allows for systematic practice of grade level and pregrade level content. A record chart and a comprehensive index are provided.

• *Teacher Support Package*

This set of activity masters, assessment masters and family masters may be used throughout the year. The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities. The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance. The family masters include program and unit introduction letters (also translated into French) and blank stationery.

• *Technology Package*

The technology activities were created for ClarisWorks and Microsoft Works applications programs, including word processing, spreadsheet, draw, paint and database environments. Exploration centres file discs are included.

• *Problem of the Week*

Transparencies provide an easy way to display each problem of the week. An answer key is included.

• *Professional Handbook (Revised Edition)*

This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change; Student Behavior and Attitudes; The Teacher's Role; Content; Assessment; Student Diversity; The Role of Technology; Communicating with Parents; Quest 2000 Content Grades K-6; and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.

• *Developing Number Strategies*

This is a teacher resource designed to develop and enhance mental computational skills. There are 160 estimation and mental mathematics activities organized into sets of five—one for each day of the week. Answers are provided with the exercises. These activities are a stand-alone option and do not correlate directly with material in the student book.

• *Exploration Centres: Activity Cards (Revised Edition)*

This is a set of 70 activity cards that provide a ready-made version of the Exploration Centres described in the teacher's guide and journal at the beginning of each unit. These cards provide further practice and extension activities for the concepts taught in the unit. Activity cards could be used to set up centres.

Comments:

- Students are expected to construct their own methods of estimation and computation. They have to explain and discuss their methods, with the teacher acting as a facilitator. This even applies in cases where there have been conventional methods used, such as the lining up of decimal points for addition.
- Many key ideas are included by implication rather than by explicit statement. Key ideas are included in the teacher materials but are not included in the student book. Vocabulary development is confined to the teacher materials.
- A glossary is included in the professional handbook, not the teacher's guide.

Continued

Continued

Cautions:

- Money problems go to \$25 not \$50.
- There is some extraneous material on fractions in Unit 6.
- The software package was designed for Microsoft Works or ClarisWorks, and requires considerable preparatory work before students can use it

System Requirements:

- Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, either ClarisWorks v2.0 or higher, or Microsoft Works v3.0 or higher.
- Windows 3.1: 386/33 MHz, 4 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher.
- Windows 95: 486/50 MHz (Pentium recommended), 8 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher.

Audience: General

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Addison-Wesley Publishers Ltd.

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: ISBN:

| | |
|------|------------------|
| 1996 | 0201552698 |
| 1997 | 0201681293 (Set) |
| 1997 | 020165671X (Set) |
| 1997 | 020155271X |
| 1997 | 0201898446 |
| 1996 | 0201696053 |
| 1997 | 0201696010 |
| 1999 | 0201478005 |
| 1998 | 0201360020 |

Component Titles:

| | |
|----------------------------------------------------------------------------------------|----------------|
| • Student Book | \$24.35 |
| • Teacher's Guide & Journal; Solutions Manual | \$114.45 (Set) |
| • Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers) | \$45.75 (Set) |
| • Teacher Support Package | \$45.75 |
| • Technology Package | \$49.20 |
| • Problem of the Week | \$45.75 |
| • Professional Handbook (Revised Edition) | \$22.85 |
| • Developing Number Strategies | \$34.95 |
| • Exploration Centres: Activity Cards (Revised Edition) | \$42.35 |

Est. WCP Price(s):



*Solutions & Extensions for
Illustrative Examples from the
Western Canadian Protocol*
Solutions & Extensions for
Illustrative Examples from the
Western Canadian Protocol:
Grade 4

Teacher Resource

Author(s):

Hauk, C. M.; Quinn, B. A.

Physical Characteristics:

50 pages, coilbound



**Availability in Alternate Format(s) for
Students Who Are Visually Impaired, Print
Disabled or Hearing Impaired:**

- Access to Publisher's Disks for Production

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: C. Marie Hauk; Bryan A. Quinn
Distributor: Math Alive
315 Dechene Road
EDMONTON, AB, CANADA T6M 1W3
Telephone: (780) 487-8841
Fax: (780) 481-9913

Copyright:
1999

Title:
Solutions & Extensions for Illustrative
Examples from the Western Canadian
Protocol: Grade 4

Est. WCP Price(s):
\$9.75

Annotation:

This resource provides assistance for teachers in implementing the Common Curriculum Framework. Keyed directly to each illustrative example, it provides teachers with solutions, including diagrams, tables, interpretations and suggestions for concept development. This resource highlights the mathematical processes—communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization—that are associated with the corresponding specific outcomes. For added convenience, each page of this resource is cross-referenced to the page where the respective illustrative example appears in the Common Curriculum Framework.

Comments:

- This resource must be used directly with the original June 1995 Common Curriculum Framework, and not in connection with any documents derived from the Common Curriculum Framework and produced by individual jurisdictions.

Cautions:

- In a number of places there is scope for valid alternative methods of solving the illustrative examples. Sometimes the authors provide only one solution where more than one solution may be valid. Teachers should be aware of this, and should always remain respectful of valid alternative methods for solving the illustrative examples.

Audience: Teachers

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |



Assessment Bookshelf Series

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Teacher Resource

Author(s):

Ainsworth, L.; Christinson, J.

Physical Characteristics:

109 pages, softcover



Annotation:

This professional resource promotes the use of student input for evaluating performance tasks. The resource shows how students can use generated rubrics for guidance as they complete their projects. Sample student work is provided.

Comments:

- This is a teacher resource that could be used across curriculum areas.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: Addison-Wesley Longman

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: 1998

ISBN: 1572329211

Title:

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Est. WCP Price(s):

\$16.11



The Super Source

The Super Source: Snap Cubes

Annotation:

This teacher resource provides a set of activities with snap cubes. While the activities are episodic rather than systematic, the resource shows how some learning outcomes can be supported through the use of snap cubes. Activities are often challenging.

Teacher Resource

Comments:

- The resource does not include a set of snap cubes.

Physical Characteristics:

95 pages, softcover



Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | | | ✓ |

Publisher: Cuisenaire Company of America, Inc.

Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3

Telephone: (800) 668-0600; (905) 841-0600

Fax: (800) 668-0602; (905) 727-6265

Internet: <http://www.spectrumed.com>

Copyright: ISBN:

1996 157452013X

Title:

The Super Source: Snap Cubes

Est. WCP Price(s):

\$19.95



Writing in Math Class: A
Resource for Grades 2-8

Annotation:

This teacher resource presents strategies to assist teachers in making writing a part of their mathematics instruction. It explains why students should write in mathematics class and offers tips and suggestions for teachers. The sample lessons provided encourage students to demonstrate the mathematical processes cited in the Common Curriculum Framework.

Teacher Resource

Author(s):

Burns, M.

Audience: Teachers

Physical Characteristics:

197 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: ISBN:

1995 0941355136 (Math
Solutions
Publications)
0201872323
(Addison-Wesley
Longman)

Title:

Writing in Math Class: A Resource for
Grades 2-8

Est. WCP Price(s):

\$25.83



Data Explorer (Version 1.1 for Macintosh and Windows)

Depth Resource

Physical Characteristics:

One CD-ROM and a Teacher's Guide—204 pages—all in a 3-ring binder



Annotation:

This resource is a very useful tool for collecting and representing data in graphs. Students create and administer surveys, either on paper or on the computer; input the data, if collected on paper; and then manipulate it to create graphic representations. An electronic notebook allows students to complete an analysis on-screen. The program supports line plots, with icon choices, bar graphs, histograms, broken line graphs, box and whisker plots, stem and leaf plots, scatter plots, Venn diagrams, circle graphs and tables.

Comments:

- The teacher support material includes a reference section that provides explanations of the functions of the program.
- The program often chooses axes that do not start at 0. This can be adjusted in some of the types of graphs.
- The program content extends beyond Grade 6.

System Requirements:

- Macintosh: System 7.0 or higher, 68040 processor or better, 33 MHz, 3.5 MB RAM, 256 colour 640 x 480 monitor.
- Windows 3.1: Windows 3.1 or higher, 386 processor or better, 256 colour 640 x 480 monitor.
- Windows 95: Windows 95 or higher, 486 processor or better (Pentium recommended), 256 colour 640 x 480 monitor.

Audience: General

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | ✓ | |

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7

Telephone: (800) 667-1115 ; (416) 293-8464

Fax: (416) 293-9009

Internet: <http://www.gagelearning.com>

Copyright:

1998

Title:

Data Explorer (Version 1.1 for Macintosh and Windows)

Est. WCP Price(s):

\$119.95



50 Problem Solving Lessons

Annotation:

This is a compilation of open-ended mathematics problem-solving activities, for Grade 1 to Grade 6, that promote critical thinking and use manipulatives.

Teacher Resource

Author(s):

Burns, M.

Physical Characteristics:

183 pages, softcover



Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | ✓ |

Publisher: Addison-Wesley Longman Ltd.

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: 1996

ISBN: 0941355160

Title:

50 Problem Solving Lessons

Est. WCP Price(s):

\$20.79



In the Balance

NEW

NEW

- In the Balance: Algebra Logic Puzzles: Grades 4–6
- In the Balance: Algebra Logic Puzzles: Grades 7–9

Teacher Resource

Author(s):

Kroner, L.

Physical Characteristics:

- In the Balance: Algebra Logic Puzzles: Grades 4–6—78 pages, coilbound
- In the Balance: Algebra Logic Puzzles: Grades 7–9—78 pages, coilbound



Annotation:

Each of these resources contains 25 reproducible logic-based number puzzles ranging from the simple to the very complex. These are extension activities that support a number of the Common Curriculum Framework mathematical processes.

Comments:

- These resources can also be used at the senior high school level in Relations and Functions.
- It would be beneficial to have both the Grades 4–6 booklet and the Grades 7–9 booklet, as it is necessary to introduce the puzzles at a simple stage of complexity—Grades 4–6—before teaching at the more complex—Grades 7–9—level.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|----------------------------|---------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis |
| ✓ | ✓ | | ✓ | | | | | |

Publisher: Creative Publications

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: ISBN:

1997 0762205512

1997 0762205520

Component Titles:

- In the Balance: Algebra Logic Puzzles: Grades 4–6
- In the Balance: Algebra Logic Puzzles: Grades 7–9

Est. WCP Price(s):

\$22.05

\$22.05



Active Learning Series

Just a Minute: Activities for Spare Moments in Class: Grades 5–8,
Ages 10–13

Teacher Resource

Author(s):
Cowan, L.

Audience: Teachers

Physical Characteristics:
Approximately 150 pages, in a 3-ring binder



Annotation:

This resource offers a variety of open-ended mathematics activities based on all strands. It is designed as an active tool to allow students to reflect, review, communicate and solve problems through such things as drama, debate and games. All mathematical processes are addressed. The resource uses language arts activities extensively to help students communicate knowledge and reasoning in mathematics. The mathematics activities can be used for cooperative small-group review purposes, reinforcement, evaluation or for challenge purposes.

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd.
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563-1166; (705) 725-1166
Fax: (705) 725-1167
Internet: <http://www.exclusiveeducational.ca>

Copyright:
1998

Title:
Just a Minute: Activities for Spare Moments in
Class: Grades 5–8, Ages 10–13

Est. WCP Price(s):
\$34.95



Kay Toliver Files 2

- Distance, Time and Speed
- Statistics
- Circles
- Decimals
- Kay Toliver Files 2: Teacher's Guide

Teacher Resource

Physical Characteristics:

- Distance, Time and Speed—One 15-minute videocassette
- Statistics—One 15-minute videocassette
- Circles—One 15-minute videocassette
- Decimals—One 15-minute videocassette
- Kay Toliver Files 2: Teacher's Guide—48 pages, softcover



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Closed captioned

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: PBS Video

Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4

Telephone: (800) 668-0749; (416) 252-5907

Fax: (416) 251-3720

Internet: <http://www.visualed.com/>

Copyright: 1998

1998

1998

1998

1998

1998 079362858X

Component Titles:

- Distance, Time and Speed
- Statistics
- Circles
- Decimals
- Kay Toliver Files 2: Teacher's Guide

Est. WCP Price(s):

\$125.00

\$125.00

\$125.00

\$125.00

No charge with series purchase.



Kay Toliver Files 3

- Patterns
- Length and Area
- Volume
- The Counting Principle
- Kay Toliver Files 3: Teacher's Guide

Teacher Resource

Physical Characteristics:

- Patterns—One 15-minute videocassette
- Length and Area—One 15-minute videocassette
- Volume—One 15-minute videocassette
- The Counting Principle—One 15-minute videocassette
- Kay Toliver Files 3: Teacher's Guide—48 pages, softcover



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Closed captioned

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | | |

Annotation:

These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:

- Imperial measures are used in some videos.

Cautions:

- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: PBS Video

Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4

Telephone: (800) 668-0749; (416) 252-5907

Fax: (416) 251-3720

Internet: <http://www.visualed.com/>

Copyright: ISBN:

1998

1998

1998

1998

1998 0793628598

Component Titles:

- Patterns
- Length and Area
- Volume
- The Counting Principle
- Kay Toliver Files 3: Teacher's Guide

Est. WCP Price(s):

\$125.00

\$125.00

\$125.00

\$125.00

No charge with series purchase.



Kay Toliver Files 4

- Variables
- Ratios
- Charts and Graphs
- Percents
- Kay Toliver Files 4: Teacher's Guide

Teacher Resource

Physical Characteristics:

- Variables—One 15-minute videocassette
- Ratios—One 15-minute videocassette
- Charts and Graphs—One 15-minute videocassette
- Percents—One 15-minute videocassette
- Kay Toliver Files 4: Teacher's Guide—48 pages, softcover



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Closed captioned

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | | |

Annotation:

These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:

- Imperial measures are used in some videos.

Cautions:

- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: PBS Video

Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4

Telephone: (800) 668-0749; (416) 252-5907

Fax: (416) 251-3720

Internet: <http://www.visualed.com/>

Copyright: ISBN:

1998

1998

1998

1998

1998 0793629985

Component Titles:

- Variables
- Ratios
- Charts and Graphs
- Percents
- Kay Toliver Files 4: Teacher's Guide

Est. WCP Price(s):

\$125.00

\$125.00

\$125.00

\$125.00

No charge with series purchase.



Math by All Means

Math by All Means: Area and Perimeter: Grades 5-6

Annotation:

This teacher resource presents strategies for and sample lessons on helping children learn about perimeter, area and the relationships between them. Each lesson consists of an overview, before the lesson preparation, introductory activity, lesson, class or student reflection, and assessments. The activities encourage students to have hands-on experiences and to develop critical thinking skills.

Teacher Resource

Author(s):

Rectanus, C.

Audience: Teachers

Physical Characteristics:

198 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | ✓ | | | | |

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Copyright: ISBN:

1994 0941355187

Title:

Math by All Means: Area and Perimeter:
Grades 5-6

Est. WCP Price(s):

\$32.27

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>



Math On the Go II: Junior:
Grades 4–6, Ages 9–11

Annotation:

Math On the Go II is a collection of student activity cards. The cards are colour-coded according to the strands—Number Sense and Numeration, Geometry and Spatial Sense, Patterning and Algebra, Measurement, Data Management and Probability, and Problem Solving. Blackline masters are included. Most of the activities use everyday materials. Every strand also has a materials list.

Teacher Resource

Author(s):

Millar, N.; Moore, N.; Morrow, P.

Audience: Teachers

Physical Characteristics:

Approximately 200 pages, loose, in a plastic case



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd.
 243 Saunders Road
 BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563-1166; (705) 725-1166
Fax: (705) 725-1167
Internet: <http://www.exclusiveeducational.ca>

Copyright:
1998

Title:
Math On the Go II: Junior: Grades 4–6,
Ages 9–11

Est. WCP Price(s):
\$59.95



Measure for Measure: Using
Portfolios in K-8 Mathematics

Annotation:

This is a professional resource for teachers who wish to have information about portfolio assessment in mathematics. It describes how teachers can use portfolios and explain portfolio assessment to students and parents. It also provides information on using rubrics for assessing portfolios.

Teacher Resource

Author(s):

Kuhs, T. M.

Audience: Teachers

Physical Characteristics:

118 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: Heinemann

Distributor: Irwin Publishing
325 Humber College Boulevard
TORONTO, ON, CANADA M9W 7C3

Telephone: (800) 263-7824; (416) 798-0424

Fax: (416) 798-1384

Internet: <http://www.irwin-pub.com>

Copyright: ISBN:

1997 0435071351

Title:

Measure for Measure: Using Portfolios in K-8
Mathematics

Est. WCP Price(s):

\$27.80



Tenth Planet Explores Math:
Geometry
Mirror Symmetry (Version 1.0 for
Macintosh and Windows)

Depth Resource

Physical Characteristics:

One CD-ROM; Teaching Guide—86
pages, coilbound; Quick Reference Card;
"At a Glance" card; Technical Guide—30
pages, softcover—all in a 3-ring binder



Annotation:

This resource allows for an extensive exploration of symmetry and related concepts. It includes a wide range of learning activities that span simple to complex applications. The resource promotes independent learning, critical thinking and connections to real-world situations, and encourages mathematical communication—oral and written. Teacher support materials include a teacher guide that has many extension and assessment tasks, and a computer component that provides flexible class management options.

Comments:

- The teacher support materials can be used for classroom management of specific student tasks and for assessment of individual students.
- The resource provides opportunities for a wide range of student learning needs.
- One activity uses American coins.

System Requirements:

- Macintosh: System 7.1 or higher, Macintosh LC II or higher (25 MHz 68030 processor or better), 8 MB RAM (5 MB available), 256 colour 13-inch monitor, double speed CD drive, approximately 14 MB free hard disk space, microphone (built-in or external).
- Windows 3.1: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.
- Windows 95: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.

Audience: General/ESL/Gifted/LD/ID (Mild)

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | ✓ | | |

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7

Telephone: (800) 667-1115 ; (416) 293-8464

Fax: (416) 293-9009

Internet: <http://www.gagelearning.com>

Copyright: ISBN:

1997-1998 188861868X
(Teaching Guide)

Title:

Mirror Symmetry (Version 1.0 for Macintosh
and Windows)

Est. WCP Price(s):

\$99.95



Quest 2000: Exploring Mathematics (Grade 5)

- Student Book
- Teacher's Guide & Journal; Solutions Manual
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Technology Package
- Problem of the Week
- Professional Handbook (Revised Edition)
- Developing Number Strategies
- Exploration Centres: Activity Cards (Revised Edition)

NEW

NEW

Breadth and Depth Resource

Author(s):

Wortzman, R. et al.

Physical Characteristics:

- Student Book—288 pages, hardcover
- Teacher's Guide & Journal—464 pages, coilbound; Solutions Manual—78 pages, softcover
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition)—178 pages each, softcover
- Teacher Support Package—107 pages, softcover
- Technology Package—32 pages, softcover, and two 3.5" program discs
- Problem of the Week—32 transparencies
- Professional Handbook—96 pages, softcover
- Developing Number Strategies—Approximately 150 pages, small format, coilbound
- Exploration Centres: Activity Cards (Revised Edition)—Approximately 150 pages, loose



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Access to Publisher's Disks for Production

Annotation:

This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eleven units, built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level. Technology suggestions are included.

• Student Book

The student book supports student activity, but does not define it, and is not intended to be a traditional text. The book may illustrate the unit question, present data to be used in completing the activity, explain a game, clarify vocabulary visually or suggest a possible recording format. The student book provides On Your Own Problems for students to solve and Practise Your Skills questions for practising mathematical skills independently at home or in class. At the end of each unit are a problem bank, a skill bank and questions for journal writing.

• Teacher's Guide & Journal

This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities and assessing ongoing performance. Classroom management ideas are included, and journal notes facilitate observations and planning. Special features of each unit include: mathematics workouts with 5-minute activities to help students review concepts from previous units; student diversity pages to build a community of learners and provide strategies for students learning English; and technology centres, some of which use commercial software.

• Solutions Manual

This manual provides answers to questions presented in the Student Book. In instances where many solutions are possible, sample responses are provided.

• Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)

These blackline masters provide students with opportunities to practise concepts and skills explored in the program. Practice pages for each unit, and test pages for the end of each unit, are included. A skills bank section allows for systematic practice of grade level and pregrade level content. A record chart and a comprehensive index are provided.

• Teacher Support Package

This set of activity masters, assessment masters and family masters may be used throughout the year. The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities. The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance. The family masters include program and unit introduction letters (also translated into French) and blank stationery.

• Technology Package

The technology activities were created for ClarisWorks and Microsoft Works applications programs, including word processing; spreadsheet; draw; paint and database environments. Exploration centres file discs are included.

• Problem of the Week

Transparencies provide an easy way to display each problem of the week. An answer key is included.

• Professional Handbook (Revised Edition)

This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change; Student Behavior and Attitudes; The Teacher's Role; Content; Assessment; Student Diversity; The Role of Technology; Communicating with Parents; Quest 2000 Content Grades K-6; and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.

• Developing Number Strategies

This is a teacher resource designed to develop and enhance mental computational skills. There are 160 estimation and mental mathematics activities organized into sets of five—one for each day of the week. Answers are provided with the exercises. These activities are a stand-alone option and do not correlate directly with material in the student book.

• Exploration Centres: Activity Cards (Revised Edition)

This is a set of 83 activity cards that provide a ready-made version of the Exploration Centres described in the teacher's guide and journal at the beginning of each unit. These cards provide further practice and extension activities for the concepts taught in the unit. Activity cards could be used to set up centres.

Comments:

- Students are expected to construct their own methods of estimation and computation. They have to explain and discuss their methods, with the teacher acting as a facilitator. This even applies in cases where there have been conventional methods used, such as the lining up of decimal points for addition.
- Many key ideas are included by implication, as well as by explicit statement. Key ideas are included in the teacher material but are not included in the student book. Vocabulary development is confined to the teacher materials.
- A glossary is included in the professional handbook, not the teacher's guide.
- Mixed numbers and stem-and-leaf plots are extraneous to Grade 5.

Continued

Continued

Cautions:

- *Developing Number Strategies*

There are some operations with fractions that are extraneous activities; e.g., $1/10 + 1/10 + 1/10$; $1/2 \times 6 _ = _ 20$.

System Requirements:

- Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, either ClarisWorks v2.0 or higher, or Microsoft Works v3.0 or higher.
- Windows 3.1: 386/33 MHz, 4 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher.
- Windows 95: 486/50 MHz (Pentium recommended), 8 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher.

Audience: General

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | ✓ | | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Addison-Wesley Publishers Ltd.

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright:

ISBN:
1997 0201552728
1997 0201552736 (Set)
1997 0201656728 (Set)

1997 0201552744
1997 0201898454
1997 0201696061
1997 0201696010
1999 020147803X
1998 0201360039

Component Titles:

• Student Book \$24.35
• Teacher's Guide & Journal; Solutions Manual \$114.45 (Set)
• Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers) \$45.75 (Set)
• Teacher Support Package \$45.75
• Technology Package \$49.20
• Problem of the Week \$45.75
• Professional Handbook (Revised Edition) \$22.85
• Developing Number Strategies \$34.95
• Exploration Centres: Activity Cards (Revised Edition) \$42.35



*Solutions & Extensions for
Illustrative Examples from the
Western Canadian Protocol*
Solutions & Extensions for
Illustrative Examples from the
Western Canadian Protocol:
Grade 5

Teacher Resource

Author(s):

Hauk, C. M.; Quinn, B. A.

Physical Characteristics:

50 pages, coilbound



**Availability in Alternate Format(s) for
Students Who Are Visually Impaired, Print
Disabled or Hearing Impaired:**

- Access to Publisher's Disks for Production

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | ✓ | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |

Annotation:

This resource provides assistance for teachers in implementing the Common Curriculum Framework. Keyed directly to each illustrative example, it provides teachers with solutions, including diagrams, tables, interpretations and suggestions for concept development. This resource highlights the mathematical processes—communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization—that are associated with the corresponding specific outcomes. For added convenience, each page of this resource is cross-referenced to the page where the respective illustrative example appears in the Common Curriculum Framework.

Comments:

- This resource must be used directly with the original June 1995 Common Curriculum Framework, and not in connection with any documents derived from the Common Curriculum Framework and produced by individual jurisdictions.

Cautions:

- In a number of places there is scope for valid alternative methods of solving the illustrative examples. Sometimes the authors provide only one solution where more than one solution may be valid. Teachers should be aware of this, and should always remain respectful of valid alternative methods for solving the illustrative examples.

Audience: Teachers

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: C. Marie Hauk; Bryan A. Quinn

Distributor: Math Alive
315 Dechene Road
EDMONTON, AB, CANADA T6M 1W3

Telephone: (780) 487-8841

Fax: (780) 481-9913

Copyright:

1999

Title:

Solutions & Extensions for Illustrative
Examples from the Western Canadian
Protocol: Grade 5

Est. WCP Price(s):

\$9.75



Assessment Bookshelf Series

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Teacher Resource

Author(s):

Ainsworth, L.; Christinson, J.

Physical Characteristics:

109 pages, softcover



Annotation:

This professional resource promotes the use of student input for evaluating performance tasks. The resource shows how students can use generated rubrics for guidance as they complete their projects. Sample student work is provided.

Comments:

- This is a teacher resource that could be used across curriculum areas.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: Addison-Wesley Longman

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: 1998

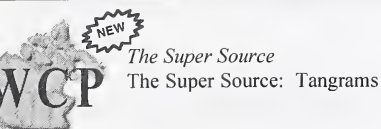
ISBN: 1572329211

Title:

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Est. WCP Price(s):

\$16.11



Teacher Resource

Physical Characteristics:
104 pages, softcover



Annotation:

This teacher resource provides a set of activities with tangrams. While the activities are episodic rather than systematic, the resource shows how a number of outcomes in Shape and Space can be supported through the use of this manipulative.

Comments:

- Some of the activities go beyond the Grade 5/Grade 6 learning outcomes, so teachers must select grade-appropriate activities.
- The resource does not include a class set of tangrams.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | ✓ | ✓ | ✓ | | |

Publisher: Cuisenaire Company of America, Inc.

Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3

Telephone: (800) 668-0600; (905) 841-0600

Fax: (800) 668-0602; (905) 727-6265

Internet: <http://www.spectrumed.com>

Copyright: 1996

ISBN: 1574520172

Title:

The Super Source: Tangrams

Est. WCP Price(s):

\$19.95



Writing in Math Class: A
Resource for Grades 2–8

Teacher Resource

Author(s):
Burns, M.

Audience: Teachers

Physical Characteristics:
197 pages, softcover



Annotation:

This teacher resource presents strategies to assist teachers in making writing a part of their mathematics instruction. It explains why students should write in mathematics class and offers tips and suggestions for teachers. The sample lessons provided encourage students to demonstrate the mathematical processes cited in the Common Curriculum Framework.

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Math Solutions Publications

Copyright: ISBN:

Title:

Est. WCP Price(s):

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

1995

0941355136 (Math
Solutions
Publications)
0201872323
(Addison-Wesley
Longman)

Writing in Math Class: A Resource for
Grades 2–8

\$25.83

Telephone: (800) 387–8028; (416) 447–5101

Fax: (800) 465–0536; (416) 443–0948

Internet: <http://www.awl.com/canada>



MathMania Series

Cool Math Games: Grades 7–10

Teacher Resource

Author(s):

Gadanidis, G

Audience: Teachers

Physical Characteristics:

Approximately 100 pages, coilbound



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | | ✓ | | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | | ✓ | ✓ | | | | | |

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products Ltd.
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3

Telephone: (800) 563–1166; (705) 725–1166

Fax: (705) 725–1167

Internet: <http://www.exclusiveducational.ca>

Copyright:

1997

Title:

Cool Math Games: Grades 7–10

Est. WCP Price(s):

\$29.95



Data Explorer (Version 1.1 for Macintosh and Windows)

Depth Resource

Physical Characteristics:

One CD-ROM and a Teacher's Guide—204 pages—all in a 3-ring binder



Annotation:

This resource is a very useful tool for collecting and representing data in graphs. Students create and administer surveys, either on paper or on the computer; input the data, if collected on paper; and then manipulate it to create graphic representations. An electronic notebook allows students to complete an analysis on-screen. The program supports line plots, with icon choices, bar graphs, histograms, broken line graphs, box and whisker plots, stem and leaf plots, scatter plots, Venn diagrams, circle graphs and tables.

Comments:

- The teacher support material includes a reference section that provides explanations of the functions of the program.
- The program often chooses axes that do not start at 0. This can be adjusted in some of the types of graphs.
- The program content extends beyond Grade 6.

System Requirements:

- Macintosh: System 7.0 or higher, 68040 processor or better, 33 MHz, 3.5 MB RAM, 256 colour 640 x 480 monitor.
- Windows 3.1: Windows 3.1 or higher, 386 processor or better, 256 colour 640 x 480 monitor.
- Windows 95: Windows 95 or higher, 486 processor or better (Pentium recommended), 256 colour 640 x 480 monitor.

Audience: General

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | ✓ | |

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7

Telephone: (800) 667-1115 ; (416) 293-8464

Fax: (416) 293-9009

Internet: <http://www.gagelearning.com>

Copyright:

1998

Title:

Data Explorer (Version 1.1 for Macintosh and Windows)

Est. WCP Price(s):

\$119.95



50 Problem Solving Lessons

Annotation:

This is a compilation of open-ended mathematics problem-solving activities, for Grade 1 to Grade 6, that promote critical thinking and use manipulatives.

Teacher Resource

Audience: Teachers

Author(s):

Burns, M.

Physical Characteristics:

183 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | ✓ |

Publisher: Addison-Wesley Longman Ltd.

Copyright: ISBN:

Title:

Est. WCP Price(s):

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

1996 0941355160

50 Problem Solving Lessons

\$20.79

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>



In the Balance

- In the Balance: Algebra Logic Puzzles: Grades 4–6
- In the Balance: Algebra Logic Puzzles: Grades 7–9

Teacher Resource

Author(s):
Kroner, L.

Audience: Teachers

Physical Characteristics:

- In the Balance: Algebra Logic Puzzles: Grades 4–6—78 pages, coilbound
- In the Balance: Algebra Logic Puzzles: Grades 7–9—78 pages, coilbound



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | | ✓ | | | | | | |

Publisher: Creative Publications

Copyright: ISBN:

Component Titles:

Est. WCP Price(s):

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

1997 0762205512
1997 0762205520

• In the Balance: Algebra Logic Puzzles: Grades 4–6 \$22.05
• In the Balance: Algebra Logic Puzzles: Grades 7–9 \$22.05

Telephone: (800) 387–8028; (416) 447–5101

Fax: (800) 465–0536; (416) 443–0948

Internet: <http://www.awl.com/canada>



Active Learning Series

Just a Minute: Activities for Spare Moments in Class: Grades 5–8, Ages 10–13

Annotation:

This resource offers a variety of open-ended mathematics activities based on all strands. It is designed as an active tool to allow students to reflect, review, communicate and solve problems through such things as drama, debate and games. All mathematical processes are addressed. The resource uses language arts activities extensively to help students communicate knowledge and reasoning in mathematics. The mathematics activities can be used for cooperative small-group review purposes, reinforcement, evaluation or for challenge purposes.

Teacher Resource

Author(s):

Cowan, L.

Audience: Teachers

Physical Characteristics:

Approximately 150 pages, in a 3-ring binder



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products Ltd.
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3

Telephone: (800) 563–1166; (705) 725–1166

Fax: (705) 725–1167

Internet: <http://www.exclusiveeducational.ca>

Copyright:

1998

Title:

Just a Minute: Activities for Spare Moments in
Class: Grades 5–8, Ages 10–13

Est. WCP Price(s):

\$34.95



Kay Toliver Files 2

- Distance, Time and Speed
- Statistics
- Circles
- Decimals
- Kay Toliver Files 2: Teacher's Guide

Teacher Resource

Physical Characteristics:

- Distance, Time and Speed—One 15-minute videocassette
- Statistics—One 15-minute videocassette
- Circles—One 15-minute videocassette
- Decimals—One 15-minute videocassette
- Kay Toliver Files 2: Teacher's Guide—48 pages, softcover



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Closed captioned

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | | |

Annotation:

These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:

- Imperial measures are used in some videos.

Cautions:

- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: PBS Video

Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4

Telephone: (800) 668-0749; (416) 252-5907

Fax: (416) 251-3720

Internet: <http://www.visualed.com/>

Copyright: ISBN:

1998
1998
1998
1998
1998 079362858X

Component Titles:

- Distance, Time and Speed
- Statistics
- Circles
- Decimals
- Kay Toliver Files 2: Teacher's Guide

Est. WCP Price(s):

\$125.00
\$125.00
\$125.00
\$125.00
No charge with series purchase.



Kay Toliver Files 3

- Patterns
- Length and Area
- Volume
- The Counting Principle
- Kay Toliver Files 3: Teacher's Guide

Teacher Resource

Physical Characteristics:

- Patterns—One 15-minute videocassette
- Length and Area—One 15-minute videocassette
- Volume—One 15-minute videocassette
- The Counting Principle—One 15-minute videocassette
- Kay Toliver Files 3: Teacher's Guide—48 pages, softcover



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Closed captioned

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | | |

Annotation:

These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:

- Imperial measures are used in some videos.

Cautions:

- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: PBS Video

Distributor: Visual Education Centre
41 Homer Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4

Telephone: (800) 668-0749; (416) 252-5907

Fax: (416) 251-3720

Internet: <http://www.visualed.com/>

Copyright: ISBN:

1998
1998
1998
1998
1998 0793628598

Component Titles:

- Patterns
- Length and Area
- Volume
- The Counting Principle
- Kay Toliver Files 3: Teacher's Guide

Est. WCP Price(s):

\$125.00
\$125.00
\$125.00
\$125.00
No charge with series purchase.



Kay Toliver Files 4

- Variables
- Ratios
- Charts and Graphs
- Percents
- Kay Toliver Files 4: Teacher's Guide

Teacher Resource

Physical Characteristics:

- Variables—One 15-minute videocassette
- Ratios—One 15-minute videocassette
- Charts and Graphs—One 15-minute videocassette
- Percents—One 15-minute videocassette
- Kay Toliver Files 4: Teacher's Guide—48 pages, softcover



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Closed captioned

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: PBS Video

Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4

Telephone: (800) 668-0749; (416) 252-5907

Fax: (416) 251-3720

Internet: <http://www.visualed.com/>

Copyright: ISBN:

1998
1998
1998
1998
1998
0793629985

Component Titles:

- Variables
- Ratios
- Charts and Graphs
- Percents
- Kay Toliver Files 4: Teacher's Guide

Est. WCP Price(s):

\$125.00
\$125.00
\$125.00
\$125.00
No charge with series purchase.

Annotation:

These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:

- Imperial measures are used in some videos.

Cautions:

- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers



Math by All Means

Math by All Means: Area and Perimeter: Grades 5–6

Annotation:

This teacher resource presents strategies for and sample lessons on helping children learn about perimeter, area and the relationships between them. Each lesson consists of an overview, before the lesson preparation, introductory activity, lesson, class or student reflection, and assessments. The activities encourage students to have hands-on experiences and to develop critical thinking skills.

Teacher Resource

Author(s):

Rectanus, C.

Audience: Teachers

Physical Characteristics:

198 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | ✓ | | | | |

Publisher: Math Solutions Publications

Copyright: ISBN:

Title:

Est. WCP Price(s):

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

1994 0941355187

Math by All Means: Area and Perimeter:
Grades 5–6

\$32.27

Telephone: (800) 387–8028; (416) 447–5101

Fax: (800) 465–0536; (416) 443–0948

Internet: <http://www.awl.com/canada>



Math On the Go II: Junior:
Grades 4–6, Ages 9–11

Teacher Resource

Author(s):

Millar, N.; Moore, N.; Morrow, P.

Physical Characteristics:

Approximately 200 pages, loose, in a plastic case



Annotation:

Math On the Go II is a collection of student activity cards. The cards are colour-coded according to the strands—Number Sense and Numeration, Geometry and Spatial Sense, Patterning and Algebra, Measurement, Data Management and Probability, and Problem Solving. Blackline masters are included. Most of the activities use everyday materials. Every strand also has a materials list.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd.
 243 Saunders Road
 BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563–1166; (705) 725–1166
Fax: (705) 725–1167
Internet: <http://www.exclusiveeducational.ca>

Copyright:
1998

Title:
Math On the Go II: Junior: Grades 4–6,
Ages 9–11

Est. WCP Price(s):
\$59.95



Measure for Measure: Using
Portfolios in K–8 Mathematics

Annotation:

This is a professional resource for teachers who wish to have information about portfolio assessment in mathematics. It describes how teachers can use portfolios and explain portfolio assessment to students and parents. It also provides information on using rubrics for assessing portfolios.

Teacher Resource

Audience: Teachers

Author(s):

Kuhs, T. M.

Physical Characteristics:

118 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: Heinemann

Distributor: Irwin Publishing
325 Humber College Boulevard
TORONTO, ON, CANADA M9W 7C3

Telephone: (800) 263-7824; (416) 798-0424

Fax: (416) 798-1384

Internet: <http://www.irwin-pub.com>

Copyright: ISBN:

1997 0435071351

Title:

Measure for Measure: Using Portfolios in K–8
Mathematics

Est. WCP Price(s):

\$27.80



Tenth Planet Explores Math:

Geometry

Mirror Symmetry (Version 1.0 for Macintosh and Windows)

Depth Resource

Physical Characteristics:

One CD-ROM; Teaching Guide—86 pages, coilbound; Quick Reference Card; "At a Glance" card; Technical Guide—30 pages, softcover—all in a 3-ring binder



Annotation:

This resource allows for an extensive exploration of symmetry and related concepts. It includes a wide range of learning activities that span simple to complex applications. The resource promotes independent learning, critical thinking and connections to real-world situations, and encourages mathematical communication—oral and written. Teacher support materials include a teacher guide that has many extension and assessment tasks, and a computer component that provides flexible class management options.

Comments:

- The teacher support materials can be used for classroom management of specific student tasks and for assessment of individual students.
- The resource provides opportunities for a wide range of student learning needs.
- One activity uses American coins.

System Requirements:

- Macintosh: System 7.1 or higher, Macintosh LC II or higher (25 MHz 68030 processor or better), 8 MB RAM (5 MB available), 256 colour 13-inch monitor, double speed CD drive, approximately 14 MB free hard disk space, microphone (built-in or external).
- Windows 3.1: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.
- Windows 95: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.

Audience: General/ESL/Gifted/LD/ID (Mild)

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | ✓ | | |

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7

Telephone: (800) 667-1115 ; (416) 293-8464

Fax: (416) 293-9009

Internet: <http://www.gagelearning.com>

Copyright: 1997-1998

ISBN: 188861868X
(Teaching Guide)

Title:

Mirror Symmetry (Version 1.0 for Macintosh and Windows)

Est. WCP Price(s):

\$99.95



Quest 2000: Exploring Mathematics (Grade 6)

- Student Book
- Teacher's Guide & Journal; Solutions Manual
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Technology Package
- Problem of the Week
- Professional Handbook (Revised Edition)
- Developing Number Strategies
- Exploration Centres: Activity Cards (Revised Edition)



Breadth and Depth Resource

Author(s):

Wortzman, R. et al.

Physical Characteristics:

- Student Book—297 pages, hardcover
- Teacher's Guide & Journal—448 pages, coilbound; Solutions Manual—88 pages, softcover
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition)—180 pages each, softcover
- Teacher Support Package—101 pages, softcover
- Technology Package—33 pages, softcover, and two 3.5" program discs
- Problem of the Week—32 transparencies
- Professional Handbook—96 pages, softcover
- Developing Number Strategies—Approximately 150 pages, small format, coilbound
- Exploration Centres: Activity Cards (Revised Edition)—Approximately 150 pages, loose



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Access to Publisher's Disks for Production

Annotation:

This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eleven units, built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level. Technology suggestions are included.

• *Student Book*

The student book supports student activity, but does not define it, and is not intended to be a traditional text. The book may illustrate the unit question, present data to be used in completing the activity, explain a game, clarify vocabulary visually or suggest a possible recording format. The student book provides On Your Own Problems for students to solve and Practice Your Skills questions for practising mathematical skills independently at home or in class. At the end of each unit are a problem bank, skill bank and questions for journal writing.

• *Teacher's Guide & Journal*

This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities and assessing ongoing performance. Classroom management ideas are included, and journal notes facilitate observations and planning. Special features of each unit include: mathematics workouts with 5-minute activities to help students review concepts from previous units; student diversity pages to build a community of learners and provide strategies for students learning English; and exploration centres, some of which use commercial software.

• *Solutions Manual*

This manual provides answers to questions presented in the Student Book. In instances where many solutions are possible, sample responses are provided.

• *Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)*

These blackline masters provide students with opportunities to practise concepts and skills explored in the program. Practice pages for each unit, and test pages for the end of each unit, are included. A skills bank section allows for systematic practice of grade level and pregrade level content. A record chart and a comprehensive index are provided.

• *Teacher Support Package*

This set of activity masters, assessment masters and family masters may be used throughout the year. The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities. The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance. The family masters include program and unit introduction letters (also translated into French) and blank stationery.

• *Technology Package*

The technology activities were created for ClarisWorks and Microsoft Works applications programs, including word processing; spreadsheet; draw; paint and database environments. Exploration centres file discs are included.

• *Problem of the Week*

Transparencies provide an easy way to display each problem of the week. An answer key is included.

• *Professional Handbook (Revised Edition)*

This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change; Student Behavior and Attitudes; The Teacher's Role; Content; Assessment; Student Diversity; The Role of Technology; Communicating with Parents; Quest 2000 Content Grades K-6; and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.

• *Developing Number Strategies*

This is a teacher resource designed to develop and enhance mental computational skills. There are 160 estimation and mental mathematics activities organized into sets of five—one for each day of the week. Answers are provided with the exercises. These activities are a stand-alone option and do not correlate directly with material in the student book.

• *Exploration Centres: Activity Cards (Revised Edition)*

This is a set of 76 activity cards that provide a ready-made version of the Exploration Centres described in the teacher's guide and journal at the beginning of each unit. These cards provide further practice and extension activities for the concepts taught in the unit. Activity cards could be used to set up centres.

Comments:

- Students are expected to construct their own methods of estimation and computation. They have to explain and discuss their methods, with the teacher acting as a facilitator. This even applies in cases where there have been conventional methods used, such as the lining up of decimal points for addition.
- Many key ideas are included by implication, as well as by explicit statement. Key ideas are included in the teacher materials and the student book. Vocabulary development is confined to the teacher materials.
- A glossary is included in the professional handbook, not the teacher's guide.

Continued

Continued

Cautions:

- The outcomes related to geometrical designs, symmetry and motion geometry are not addressed.

System Requirements:

- Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, either ClarisWorks v2.0 or higher, or Microsoft Works v3.0 or higher.
- Windows 3.1: 386/33 MHz, 4 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher.
- Windows 95: 485/50 MHz (Pentium recommended), 8 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher.

Audience: General

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ |

Publisher: Addison-Wesley Publishers Ltd.

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: ISBN:

| | |
|------|------------------|
| 1997 | 0201552752 |
| 1997 | 0201552760 (Set) |
| 1997 | 0201656736 (Set) |
| 1997 | 0201552779 |
| 1997 | 0201898462 |
| 1997 | 020169607X |
| 1997 | 0201696010 |
| 1999 | 0201478048 |
| 1998 | 0201360047 |

Component Titles:

| | |
|----------------------------------------------------------------------------------------|----------------|
| • Student Book | \$24.35 |
| • Teacher's Guide & Journal; Solutions Manual | \$114.45 (Set) |
| • Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers) | \$45.75 (Set) |
| • Teacher Support Package | \$45.75 |
| • Technology Package | \$49.20 |
| • Problem of the Week | \$45.75 |
| • Professional Handbook (Revised Edition) | \$22.85 |
| • Developing Number Strategies | \$34.95 |
| • Exploration Centres: Activity Cards (Revised Edition) | \$42.35 |



*Solutions & Extensions for
Illustrative Examples from the
Western Canadian Protocol
Solutions & Extensions for
Illustrative Examples from the
Western Canadian Protocol:
Grade 6*

Teacher Resource

Author(s):

Hauk, C. M.; Quinn, B. A.

Physical Characteristics:

50 pages, coilbound



**Availability in Alternate Format(s) for
Students Who Are Visually Impaired, Print
Disabled or Hearing Impaired:**

- Access to Publisher's Disks for Production

Annotation:

This resource provides assistance for teachers in implementing the Common Curriculum Framework. Keyed directly to each illustrative example, it provides teachers with solutions, including diagrams, tables, interpretations and suggestions for concept development. This resource highlights the mathematical processes—communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization—that are associated with the corresponding specific outcomes. For added convenience, each page of this resource is cross-referenced to the page where the respective illustrative example appears in the Common Curriculum Framework.

Comments:

- This resource must be used directly with the original June 1995 Common Curriculum Framework, and not in connection with any documents derived from the Common Curriculum Framework and produced by individual jurisdictions.

Cautions:

- In a number of places there is scope for valid alternative methods of solving the illustrative examples. Sometimes the authors provide only one solution where more than one solution may be valid. Teachers should be aware of this, and should always remain respectful of valid alternative methods for solving the illustrative examples.

Audience: Teachers

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | ✓ | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: C. Marie Hauk; Bryan A. Quinn

Distributor: Math Alive
315 Dechene Road
EDMONTON, AB, CANADA T6M 1W3

Telephone: (780) 487-8841

Fax: (780) 481-9913

Copyright:

1999

Title:

Solutions & Extensions for Illustrative
Examples from the Western Canadian
Protocol: Grade 6

Est. WCP Price(s):

\$9.75



Assessment Bookshelf Series

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Teacher Resource

Author(s):

Ainsworth, L.; Christinson, J.

Physical Characteristics:

109 pages, softcover



Annotation:

This professional resource promotes the use of student input for evaluating performance tasks. The resource shows how students can use generated rubrics for guidance as they complete their projects. Sample student work is provided.

Comments:

- This is a teacher resource that could be used across curriculum areas.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: Addison-Wesley Longman

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: 1998

ISBN: 1572329211

Title:

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Est. WCP Price(s):

\$16.11



The Super Source

The Super Source: Tangrams

Teacher Resource

Physical Characteristics:

104 pages, softcover



Annotation:

This teacher resource provides a set of activities with tangrams. While the activities are episodic rather than systematic, the resource shows how a number of outcomes in Shape and Space can be supported through the use of this manipulative.

Comments:

- Some of the activities go beyond the Grade 5/Grade 6 learning outcomes, so teachers must select grade-appropriate activities.
- The resource does not include a class set of tangrams.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | ✓ | ✓ | | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | ✓ | ✓ | ✓ | | |

Publisher: Cuisenaire Company of America, Inc.

Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3

Telephone: (800) 668-0600; (905) 841-0600

Fax: (800) 668-0602; (905) 727-6265

Internet: <http://www.spectrumed.com>

Copyright: ISBN:

1996 1574520172

Title:

The Super Source: Tangrams

Est. WCP Price(s):

\$19.95



Writing in Math Class: A
Resource for Grades 2–8

Annotation:

This teacher resource presents strategies to assist teachers in making writing a part of their mathematics instruction. It explains why students should write in mathematics class and offers tips and suggestions for teachers. The sample lessons provided encourage students to demonstrate the mathematical processes cited in the Common Curriculum Framework.

Teacher Resource

Author(s):
Burns, M.

Audience: Teachers

Physical Characteristics:
197 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Math Solutions Publications

Copyright: 1995

Title:

Est. WCP Price(s):

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

0941355136 (Math Solutions Publications)
0201872323 (Addison-Wesley Longman)

Writing in Math Class: A Resource for
Grades 2–8

\$25.83

Telephone: (800) 387–8028; (416) 447–5101

Fax: (800) 465–0536; (416) 443–0948

Internet: <http://www.awl.com/canada>



MathMania Series

Cool Math Games: Grades 7–10

Annotation:

This book of card games deals with aspects of fractions, integers and algebraic equations. The games are clearly explained, short, and each addresses a specific outcome. The cards—to be cut out from sheets—are clearly labelled, which makes them easy to use. This resource could be used to help students master concepts in a different way.

Teacher Resource

Author(s):

Gadanidis, G.

Audience: Teachers

Physical Characteristics:

Approximately 100 pages, coilbound



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | | ✓ | | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | | ✓ | ✓ | | | | | |

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products Ltd.
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3

Telephone: (800) 563–1166; (705) 725–1166

Fax: (705) 725–1167

Internet: <http://www.exclusiveeducational.ca>

Copyright:

1997

Title:

Cool Math Games: Grades 7–10

Est. WCP Price(s):

\$29.95



Gage Mathematics Assessment
(Grade 7)
Gage Mathematics Assessment
Activities 7A (Grade 7)

Teacher Resource

Author(s):

Flewelling, G.; Lemenchick, C.

Physical Characteristics:

20 pages, paperbound



**Availability in Alternate Format(s) for
Students Who Are Visually Impaired, Print
Disabled or Hearing Impaired:**

- Access to Publisher's Disks for Production

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ✓ | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | |

Publisher: Gage Educational Publishing Co.

Distributor: Gage Educational Publishing Co.

164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7

Telephone: (800) 667-1115; (416) 293-8464

Fax: (416) 293-9009

Internet: <http://www.gagelearning.com>

Copyright: ISBN:

1997 0771533683

Title:

Gage Mathematics Assessment Activities 7A
(Grade 7)

Est. WCP Price(s):

\$3.95



Hands-on Math Projects with
Real-Life Applications:
Ready-to-Use Lessons and Materials
for Grades 6–12

Teacher Resource

Author(s):

Muschla, G. R.; Muschla, J. A.

Physical Characteristics:

365 pages, coilbound



Annotation:

This resource includes a collection of 60 projects, with advice for teachers regarding strategies and assessment. Connections with other subjects is a major focus. Each project provides opportunities for learners to demonstrate their skills and knowledge through various means of communication.

Comments:

- There is some American content; e.g., statistical facts (page 43), and imperial measures (page 81).

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | |

Publisher: The Center For Applied Research
Education, (CARE)

Distributor: Prentice Hall Canada Inc.
1870 Birchmount Road
SCARBOROUGH, ON, CANADA M1P 2J7

Telephone: (800) 361-6128; (416) 293-3621

Fax: (416) 299-2529

Internet: <http://www.phcanada.com>

Copyright: 1996 **ISBN:** 0876283849

Title: Hands-on Math Projects with Real-Life
Applications: Ready-to-Use Lessons and
Materials for Grades 6–12

Est. WCP Price(s): \$32.54



In the Balance

- In the Balance: Algebra Logic Puzzles: Grades 4–6
- In the Balance: Algebra Logic Puzzles: Grades 7–9

Teacher Resource

Author(s):
Kroner, L.

Physical Characteristics:

- In the Balance: Algebra Logic Puzzles: Grades 4–6—78 pages, coilbound
- In the Balance: Algebra Logic Puzzles: Grades 7–9—78 pages, coilbound



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | | ✓ | | | | | | |

Publisher: Creative Publications

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: ISBN:

1997 0762205512

1997 0762205520

Component Titles:

- In the Balance: Algebra Logic Puzzles: Grades 4–6
- In the Balance: Algebra Logic Puzzles: Grades 7–9

Est. WCP Price(s):

\$22.05

\$22.05



Active Learning Series

Just a Minute: Activities for Spare Moments in Class: Grades 5–8, Ages 10–13

Annotation:

This resource offers a variety of open-ended mathematics activities based on all strands. It is designed as an active tool to allow students to reflect, review, communicate and solve problems through such things as drama, debate and games. All mathematical processes are addressed. The resource uses language arts activities extensively to help students communicate knowledge and reasoning in mathematics. The mathematics activities can be used for cooperative small-group review purposes, reinforcement, evaluation or for challenge purposes.

Teacher Resource

Author(s):

Cowan, L.

Audience: Teachers

Physical Characteristics:

Approximately 150 pages, in a 3-ring binder



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products Ltd.
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3

Telephone: (800) 563-1166; (705) 725-1166

Fax: (705) 725-1167

Internet: <http://www.exclusiveeducational.ca>

Copyright:

1998

Title:

Just a Minute: Activities for Spare Moments in
Class: Grades 5–8, Ages 10–13

Est. WCP Price(s):

\$34.95



Kay Toliver Files 2

- Distance, Time and Speed
- Statistics
- Circles
- Decimals
- Kay Toliver Files 2: Teacher's Guide

Teacher Resource

Physical Characteristics:

- Distance, Time and Speed—One 15-minute videocassette
- Statistics—One 15-minute videocassette
- Circles—One 15-minute videocassette
- Decimals—One 15-minute videocassette
- Kay Toliver Files 2: Teacher's Guide—48 pages, softcover



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Closed captioned

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: PBS Video

Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4

Telephone: (800) 668-0749; (416) 252-5907

Fax: (416) 251-3720

Internet: <http://www.visualed.com/>

Copyright: ISBN:

1998

1998

1998

1998

1998 079362858X

Component Titles:

- Distance, Time and Speed
- Statistics
- Circles
- Decimals
- Kay Toliver Files 2: Teacher's Guide

Est. WCP Price(s):

\$125.00

\$125.00

\$125.00

\$125.00

No charge with series purchase.



Kay Toliver Files 3

- Patterns
- Length and Area
- Volume
- The Counting Principle
- Kay Toliver Files 3: Teacher's Guide

Annotation:

These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:

- Imperial measures are used in some videos.

Cautions:

- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers

Teacher Resource

Physical Characteristics:

- Patterns—One 15-minute videocassette
- Length and Area—One 15-minute videocassette
- Volume—One 15-minute videocassette
- The Counting Principle—One 15-minute videocassette
- Kay Toliver Files 3: Teacher's Guide—48 pages, softcover



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Closed captioned

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: PBS Video

Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4

Telephone: (800) 668-0749; (416) 252-5907

Fax: (416) 251-3720

Internet: <http://www.visualed.com/>

Copyright: ISBN:

1998
1998
1998
1998
1998 0793628598

Component Titles:

- Patterns
- Length and Area
- Volume
- The Counting Principle
- Kay Toliver Files 3: Teacher's Guide

Est. WCP Price(s):

\$125.00
\$125.00
\$125.00
\$125.00
No charge with series purchase.



Kay Toliver Files 4

- Variables
- Ratios
- Charts and Graphs
- Percents
- Kay Toliver Files 4: Teacher's Guide

Teacher Resource

Physical Characteristics:

- Variables—One 15-minute videocassette
- Ratios—One 15-minute videocassette
- Charts and Graphs—One 15-minute videocassette
- Percents—One 15-minute videocassette
- Kay Toliver Files 4: Teacher's Guide—48 pages, softcover



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Closed captioned

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | | |

Annotation:

These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:

- Imperial measures are used in some videos.

Cautions:

- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: PBS Video

Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4

Telephone: (800) 668-0749; (416) 252-5907

Fax: (416) 251-3720

Internet: <http://www.visual.com/>

Copyright: ISBN:

1998

1998

1998

1998

1998 0793629985

Component Titles:

- Variables
- Ratios
- Charts and Graphs
- Percents
- Kay Toliver Files 4: Teacher's Guide

Est. WCP Price(s):

\$125.00

\$125.00

\$125.00

\$125.00

No charge with series purchase.

NEW
WCP Polydron
Mathematics with Polydron

Annotation:

This resource contains 36 activities involving the use of polydrons. Each activity consists of a teacher sheet and a student activity sheet that can be photocopied. These activities can be used to meet student outcomes in Shape and Space (3-D Objects and 2-D Shapes) for Grade 7 to Grade 9.

Teacher Resource

Author(s):

Ansell, B.; Baker, L.; Harris, I.

Physical Characteristics:

Approximately 100 pages, coilbound



Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | | | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | ✓ | | | ... |

Publisher: Cuisenaire Company of America, Inc.

Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3

Telephone: (800) 668-0600; (905) 841-0600

Fax: (800) 668-0602; (905) 727-6265

Internet: <http://www.spectrumed.com>

Copyright: ISBN:

1994 0952381508

Title:

Mathematics with Polydron

Est. WCP Price(s):

\$49.95



Measure for Measure: Using
Portfolios in K-8 Mathematics

Teacher Resource

Author(s):

Kuhs, T. M.

Physical Characteristics:

118 pages, softcover



Annotation:

This is a professional resource for teachers who wish to have information about portfolio assessment in mathematics. It describes how teachers can use portfolios and explain portfolio assessment to students and parents. It also provides information on using rubrics for assessing portfolios.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: Heinemann

Distributor: Irwin Publishing
325 Humber College Boulevard
TORONTO, ON, CANADA M9W 7C3

Telephone: (800) 263-7824; (416) 798-0424

Fax: (416) 798-1384

Internet: <http://www.irwin-pub.com>

Copyright: ISBN:

1997 0435071351

Title:

Measure for Measure: Using Portfolios in K-8
Mathematics

Est. WCP Price(s):

\$27.80



Tenth Planet Explores Math:
Geometry
Mirror Symmetry (Version 1.0 for
Macintosh and Windows)

Annotation:

This resource allows for an extensive exploration of symmetry and related concepts. It includes a wide range of learning activities that span simple to complex applications. The resource promotes independent learning, critical thinking and connections to real-world situations, and encourages mathematical communication—oral and written. Teacher support materials include a teacher guide that has many extension and assessment tasks, and a computer component that provides flexible class management options.

Comments:

- The teacher support materials can be used for classroom management of specific student tasks and for assessment of individual students.
- The resource provides opportunities for a wide range of student learning needs.
- One activity uses American coins.

System Requirements:

- Macintosh: System 7.1 or higher, Macintosh LC II or higher (25 MHz 68030 processor or better), 8 MB RAM (5 MB available), 256 colour 13-inch monitor, double speed CD drive, approximately 14 MB free hard disk space, microphone (built-in or external).
- Windows 3.1: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.
- Windows 95: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.

Audience: General/ESL/Gifted/LD/1D (Mild)

Depth Resource

Physical Characteristics:

One CD-ROM; Teaching Guide—86 pages, coilbound; Quick Reference Card; "At a Glance" card; Technical Guide—30 pages, softcover—all in a 3-ring binder



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | ✓ | | |

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-9009
Internet: <http://www.gagelearning.com>

Copyright: ISBN: 1997-1998 188861868X
(Teaching Guide)
Title: Mirror Symmetry (Version 1.0 for Macintosh and Windows)

Est. WCP Price(s): \$99.95



Using the Explorer Plus Calculator

Teacher Resource

Author(s):

Bitter, G. G.; Mikesell, J. L.

Physical Characteristics:

291 pages, softcover



Annotation:

This resource is specific to the Texas Instruments Explorer Plus calculator. This book was written as a facilitator's manual to conduct workshops on how to use the Explorer Plus calculator in the classroom. It contains 64 pages intended to be made into transparencies for use in the presentation of workshops. It also contains 26 sample lessons covering the use of this calculator in the Number, Shape and Space, and Statistics and Probability strands.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| | | | | | ✓ | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | | | | ✓ | | | | ✓ |

Publisher: Dale Seymour Publications

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: 1998

ISBN: 1572328533

Title:

Using the Explorer Plus Calculator

Est. WCP Price(s):

\$21.24



Writing in Math Class: A
Resource for Grades 2–8

Annotation:

This teacher resource presents strategies to assist teachers in making writing a part of their mathematics instruction. It explains why students should write in mathematics class and offers tips and suggestions for teachers. The sample lessons provided encourage students to demonstrate the mathematical processes cited in the Common Curriculum Framework.

Teacher Resource

Author(s):

Burns, M.

Audience: Teachers

Physical Characteristics:

197 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: 1995

ISBN: 0941355136 (Math Solutions Publications)
0201872323 (Addison-Wesley Longman)

Title:

Writing in Math Class: A Resource for Grades 2–8

Est. WCP Price(s):

\$25.83

Acces: The Teacher's Database

- Acces: The Teacher's Database (Macintosh Version 3.33)
- Acces: The Teacher's Database (DOS/Windows Version 3.32)
- Canadian Math Database (Grades 8-10) (Catalog)

Annotation:

This resource package is a publishing system that allows teachers to draw from a collection of thousands of items arranged in topics. Most questions are of multiple-choice format, but these can be recast in open-ended format by removing the distractors. There is a preponderance of procedural items, but there are enough conceptual and problem-solving examples to allow the teacher to build an assessment consistent with a more conceptual blueprint. The technology assumed is that of the scientific calculator rather than the graphing calculator.

Comments:

- A teacher who is experienced in entering mathematical equations into a word processing program will be able to use this resource package most effectively.

Cautions:

- The Windows setup program is not yet released; the DOS/Windows Version 3.32 must be loaded under DOS, even in Windows 3.1 and Windows 95 environments.
- Windows 3.1 installations require 32-bit extensions before they run.

System Requirements:

- Macintosh: System 7.0 or higher, 68030 processor (68040 or PowerMac recommended), 4 MB RAM (6 MB recommended).
- Windows: 486/50 MHz (Pentium recommended), disc cache set to at least 512 KB.

Audience: Teachers

Teacher Resource

Physical Characteristics:

- Acces: The Teacher's Database (Macintosh Version 3.33)—One 3.5" Macintosh disc; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
- Acces: The Teacher's Database (DOS/Windows Version 3.32)—Three 3.5" DOS/Windows discs; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
- Canadian Math Database (Grades 8-10) (Catalog)—416 pages, 3-ring binder; one 3.5" disc (Macintosh Version 1.0D) and one 3.5" disc (DOS/Windows Version 1.0D)



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Access to Publisher's Disks for Production

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| | ✓ | ✓ | | ✓ | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

Publisher: EducAide Software
Distributor: EducAide Software
 3065 Richmond Parkway, Suite 102
 RICHMOND, CA, USA 94806
Telephone: (800) 669-9405 ; (510) 222-0600
Fax: (510) 222-0165
Internet: <http://www.educaide.com>

Copyright:

1997
 1997
 1998

Component Titles:

- Acces: The Teacher's Database (Macintosh Version 3.33)
- Acces: The Teacher's Database (DOS/Windows Version 3.32)
- Canadian Math Database (Grades 8-10) (Catalog)

Est. WCP Price(s):

\$495.00 (US)
 \$595.00 (US)
 \$225.00 (US)



MathMania Series

Cool Math Games: Grades 7–10

Annotation:

This book of card games deals with aspects of fractions, integers and algebraic equations. The games are clearly explained, short, and each addresses a specific outcome. The cards—to be cut out from sheets—are clearly labelled, which makes them easy to use. This resource could be used to help students master concepts in a different way.

Teacher Resource

Author(s):

Gadanidis, G.

Audience: Teachers

Physical Characteristics:

Approximately 100 pages, coilbound



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | | ✓ | | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | | ✓ | ✓ | | | | | |

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products Ltd.
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3

Telephone: (800) 563–1166; (705) 725–1166

Fax: (705) 725–1167

Internet: <http://www.exclusiveeducational.ca>

Copyright:

1997

Title:

Cool Math Games: Grades 7–10

Est. WCP Price(s):

\$29.95



Gage Mathematics Assessment
(Grade 8)
Gage Mathematics Assessment
Activities 8A (Grade 8)

Annotation:

This collection of activities has been extracted from *Gage Mathematics Assessment (Grade 8): Teacher's Resource Book*. Included are higher-level thinking, integrative problems for teachers to use in assessment. Evaluation criteria and scoring rubrics are not provided.

Teacher Resource

Author(s):

Flewelling, G.; Lemenchick, C.

Physical Characteristics:

26 pages, paperbound



Audience: Teachers

**Availability in Alternate Format(s) for
Students Who Are Visually Impaired, Print
Disabled or Hearing Impaired:**

- Access to Publisher's Disks for Production

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | |

Publisher: Gage Educational Publishing Co.

Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7

Telephone: (800) 667-1115 ; (416) 293-8464

Fax: (416) 293-9009

Internet: <http://www.gagelearning.com>

Copyright: 1997

ISBN: 0771533691

Title:

Gage Mathematics Assessment Activities 8A
(Grade 8)

Est. WCP Price(s):

\$3.95



The Geometer's Sketchpad

- The Geometer's Sketchpad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)



Annotation:

This resource consists of discs, a user guide and reference manual, teaching notes and sample activities, a quick reference, and an introductory video. The resource models geometry in two linked views, sketches and scripts. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grade 7 through Grade 9. The user guide and reference manual provide instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstration and construction activities, on a wide range of geometry topics, are included.

Comments:

- This resource can have greater applications as the user becomes more familiar with the program.
- The system defaults to inches, but it can be set to centimetres.
- The demonstration version allows users to produce sketches, but these sketches cannot be saved, printed or exported to another document.
- Some of the instructions in the reference manual are difficult for the novice user to follow.

System Requirements:

- Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6 or higher. A videocassette supplied with the Windows version supports both Macintosh and Windows.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive. The videocassette supports both Macintosh and Windows versions.
- Windows 95: 486/50 MHz (Pentium recommended), 8MB RAM, hard drive. The videocassette supports both Macintosh and Windows versions.

Audience: General

Depth Resource

Physical Characteristics:

- Macintosh Version—Three 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference
- Windows Version—Two 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Windows Quick Reference; one videocassette



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| | | | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | ✓ | ✓ | ✓ | | |

Publisher: Spectrum Educational Supplies Ltd.
Distributor: Spectrum Educational Supplies Ltd.
 125 Mary Street
 AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600; (905) 841-0600
Fax: (800) 668-0602; (905) 727-6265
Internet: <http://www.spectrumed.com>

Copyright: 1995
ISBN: 1559530987
 1995 1559530995

Component Titles:
 • The Geometer's Sketchpad (Macintosh Version 3) \$289.95
 • The Geometer's Sketchpad (Windows Version 3.03) \$289.95

Est. WCP Price(s):



Hands-on Math Projects with
Real-Life Applications:
Ready-to-Use Lessons and Materials
for Grades 6–12

Teacher Resource

Author(s):

Muschla, G. R.; Muschla, J. A.

Physical Characteristics:

365 pages, coilbound



Annotation:

This resource includes a collection of 60 projects, with advice for teachers regarding strategies and assessment. Connections with other subjects is a major focus. Each project provides opportunities for learners to demonstrate their skills and knowledge through various means of communication.

Comments:

- There is some American content; e.g., statistical facts (page 43), and imperial measures (page 81).

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | |

Publisher: The Center For Applied Research
Education, (CARE)

Distributor: Prentice Hall Canada Inc.
1870 Birchmount Road
SCARBOROUGH, ON, CANADA M1P 2J7

Telephone: (800) 361-6128; (416) 293-3621

Fax: (416) 299-2529

Internet: <http://www.phcanada.com>

Copyright: 1996 **ISBN:** 0876283849

Title:
Hands-on Math Projects with Real-Life
Applications: Ready-to-Use Lessons and
Materials for Grades 6–12

Est. WCP Price(s):
\$32.54



In the Balance

- In the Balance: Algebra Logic Puzzles: Grades 4–6
- In the Balance: Algebra Logic Puzzles: Grades 7–9

Teacher Resource

Author(s):

Kroner, L.

Physical Characteristics:

- In the Balance: Algebra Logic Puzzles: Grades 4–6—78 pages, coilbound
- In the Balance: Algebra Logic Puzzles: Grades 7–9—78 pages, coilbound



Annotation:

Each of these resources contains 25 reproducible logic-based number puzzles ranging from the simple to the very complex. These are extension activities that support a number of the Common Curriculum Framework mathematical processes.

Comments:

- These resources can also be used at the senior high school level in Relations and Functions.
- It would be beneficial to have both the Grades 4–6 booklet and the Grades 7–9 booklet, as it is necessary to introduce the puzzles at a simple stage of complexity—Grades 4–6—before teaching at the more complex—Grades 7–9—level.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | | ✓ | | | | | | |

Publisher: Creative Publications

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: ISBN:

1997 0762205512

1997 0762205520

Component Titles:

- In the Balance: Algebra Logic Puzzles: Grades 4–6
- In the Balance: Algebra Logic Puzzles: Grades 7–9

Est. WCP Price(s):

\$22.05

\$22.05



Active Learning Series

Just a Minute: Activities for Spare Moments in Class: Grades 5–8, Ages 10–13

Annotation:

This resource offers a variety of open-ended mathematics activities based on all strands. It is designed as an active tool to allow students to reflect, review, communicate and solve problems through such things as drama, debate and games. All mathematical processes are addressed. The resource uses language arts activities extensively to help students communicate knowledge and reasoning in mathematics. The mathematics activities can be used for cooperative small-group review purposes, reinforcement, evaluation or for challenge purposes.

Teacher Resource

Author(s):

Cowan, L.

Physical Characteristics:

Approximately 150 pages, in a 3-ring binder



Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products Ltd.
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3

Telephone: (800) 563-1166; (705) 725-1166

Fax: (705) 725-1167

Internet: <http://www.exclusiveducational.ca>

Copyright:

1998

Title:

Just a Minute: Activities for Spare Moments in
Class: Grades 5–8, Ages 10–13

Est. WCP Price(s):

\$34.95



Mathematics 8 (Distance Learning Package)

- Module 1: Number Connections
- Module 2: Patterns and Relations
- Module 3: Number Applications
- Module 4: Two-Dimensional Geometry
- Module 5: Probability and Statistics
- Module 6: Three-Dimensional Geometry
- Assignment Booklets
- Learning Facilitator's Manual
- Video 1 Compilation: *Math Moves* (includes: Adding and Subtracting Fractions; Multiplying and Dividing Fractions; Equations: Solving with One Step; Equations: Solving with More Than One Step)
- Video 2 Compilation: *Math Moves* (includes: The Percent; Number Theory); *Mathways* (includes: Areas; Volumes)

Annotation:

This resource package consists of six coilbound modules with accompanying assignment booklets. Two videocassettes on key concepts support the print material. A learning facilitator's manual is also available. The program correlates exactly with all specific outcomes of the Common Curriculum Framework.

Comments:

- This resource package, although intended for distance learning, would be very useful for any classroom teacher.

Audience: General

Breadth and Depth Resource

Physical Characteristics:

- Module 1: Number Connections—207 pages, coilbound
- Module 2: Patterns and Relations—135 pages, coilbound
- Module 3: Number Applications—159 pages, coilbound
- Module 4: Two-Dimensional Geometry—159 pages, coilbound
- Module 5: Probability and Statistics—159 pages, coilbound
- Module 6: Three-Dimensional Geometry—137 pages, coilbound
- Assignment Booklets—6 booklets, 15–20 pages each
- Learning Facilitator's Manual—Approximately 100 pages, loose
- Video 1 Compilation—1/2" VHS: 4 x 28:50 min.
- Video 2 Compilation—1/2" VHS: 14:50 min.; 28:50 min.; 14:56 min.; 14:56 min.



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Access to Publisher's Disks for Production

Continued

Continued

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | N/A | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Learning Technologies Branch (LTB) - Alberta Education

Distributor: Learning Technologies Branch (LTB) Alberta Learning
Box 4000
BARRHEAD, AB, CANADA T7N 1P4

Telephone: (780) 674-5350

Fax: (780) 674-6561

Copyright: ISBN:

1997 0774113200
1997 0774113332
1997 0774113367
1997 0774113529
1997 0774113782
1997 0774114045
1997 0774113227
1992

1985-1992

Component Titles:

• Module 1: Number Connections \$16.10
• Module 2: Patterns and Relations \$16.10
• Module 3: Number Applications \$16.10
• Module 4: Two-Dimensional Geometry \$16.10
• Module 5: Probability and Statistics \$16.10
• Module 6: Three-Dimensional Geometry \$16.10
• Assignment Booklets \$12.00
• Learning Facilitator's Manual \$60.00
• Video 1 Compilation: *Math Moves* (includes: Adding and Subtracting Fractions; Multiplying and Dividing Fractions; Equations: Solving with One Step; Equations: Solving with More Than One Step) \$38.15
• Video 2 Compilation: *Math Moves* (includes: The Percent, Number Theory); *Mathways* (includes: Areas; Volumes) \$38.70



Polydron

Mathematics with Polydron

Teacher Resource

Author(s):

Ansell, B.; Baker, L.; Harris, I.

Physical Characteristics:

Approximately 100 pages, coilbound



Annotation:

This resource contains 36 activities involving the use of polydrons. Each activity consists of a teacher sheet and a student activity sheet that can be photocopied. These activities can be used to meet student outcomes in Shape and Space (3-D Objects and 2-D Shapes) for Grade 7 to Grade 9.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | | | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | ✓ | | | |

Publisher: Cuisenaire Company of America, Inc.

Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3

Telephone: (800) 668-0600; (905) 841-0600

Fax: (800) 668-0602; (905) 727-6265

Internet: <http://www.spectrumed.com>

Copyright: 1994

ISBN: 0952381508

Title: Mathematics with Polydron

Est. WCP Price(s): \$49.95



Measure for Measure: Using
Portfolios in K-8 Mathematics

Annotation:

This is a professional resource for teachers who wish to have information about portfolio assessment in mathematics. It describes how teachers can use portfolios and explain portfolio assessment to students and parents. It also provides information on using rubrics for assessing portfolios.

Teacher Resource

Author(s):

Kuhs, T. M.

Audience: Teachers

Physical Characteristics:

118 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| | | | | | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | | | |

Publisher: Heinemann

Distributor: Irwin Publishing
325 Humber College Boulevard
TORONTO, ON, CANADA M9W 7C3

Copyright: 1997

ISBN: 0435071351

Title:

Measure for Measure: Using Portfolios in K-8
Mathematics

Est. WCP Price(s):

\$27.80

Telephone: (800) 263-7824; (416) 798-0424

Fax: (416) 798-1384

Internet: <http://www.irwin-pub.com>



Tenth Planet Explores Math:

Geometry

Mirror Symmetry (Version 1.0 for Macintosh and Windows)

Depth Resource

Physical Characteristics:

One CD-ROM; Teaching Guide—86 pages, coilbound; Quick Reference Card; "At a Glance" card; Technical Guide—30 pages, softcover—all in a 3-ring binder



Annotation:

This resource allows for an extensive exploration of symmetry and related concepts. It includes a wide range of learning activities that span simple to complex applications. The resource promotes independent learning, critical thinking and connections to real-world situations, and encourages mathematical communication—oral and written. Teacher support materials include a teacher guide that has many extension and assessment tasks, and a computer component that provides flexible class management options.

Comments:

- The teacher support materials can be used for classroom management of specific student tasks and for assessment of individual students.
- The resource provides opportunities for a wide range of student learning needs.
- One activity uses American coins.

System Requirements:

- Macintosh: System 7.1 or higher, Macintosh LC II or higher (25 MHz 68030 processor or better), 8 MB RAM (5 MB available), 256 colour 13-inch monitor, double speed CD drive, approximately 14 MB free hard disk space, microphone (built-in or external).
- Windows 3.1: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.
- Windows 95: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.

Audience: General/ESL/Gifted/LD/ID (Mild)

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|----------------------------|---------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis |
| | | | | | | | ✓ | |

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7

Telephone: (800) 667-1115 ; (416) 293-8464

Fax: (416) 293-9009

Internet: <http://www.gagelearning.com>

Copyright: ISBN:

1997-1998 188861868X
(Teaching Guide)

Title:

Mirror Symmetry (Version 1.0 for Macintosh and Windows)

Est. WCP Price(s):

\$99.95



Using the Explorer Plus Calculator

Annotation:

This resource is specific to the Texas Instruments Explorer Plus calculator. This book was written as a facilitator's manual to conduct workshops on how to use the Explorer Plus calculator in the classroom. It contains 64 pages intended to be made into transparencies for use in the presentation of workshops. It also contains 26 sample lessons covering the use of this calculator in the Number, Shape and Space, and Statistics and Probability strands.

Teacher Resource

Author(s):

Bitter, G. G.; Mikesell, J. L.

Audience: Teachers

Physical Characteristics:

291 pages, softcover



Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| | | | | | ✓ | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | | | | ✓ | | | | ✓ |

Publisher: Dale Seymour Publications

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Copyright: 1998

ISBN: 1572328533

Title:

Using the Explorer Plus Calculator

Est. WCP Price(s):

\$21.24

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>



Writing in Math Class: A
Resource for Grades 2–8

Teacher Resource

Author(s):

Burns, M.

Physical Characteristics:

197 pages, softcover



Annotation:

This teacher resource presents strategies to assist teachers in making writing a part of their mathematics instruction. It explains why students should write in mathematics class and offers tips and suggestions for teachers. The sample lessons provided encourage students to demonstrate the mathematical processes cited in the Common Curriculum Framework.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: 1995

ISBN: 0941355136 (Math Solutions Publications)
0201872323
(Addison-Wesley Longman)

Title:

Writing in Math Class: A Resource for
Grades 2–8

Est. WCP Price(s):

\$25.83



Access: *The Teacher's Database*

- Access: The Teacher's Database (Macintosh Version 3.33)
- Access: The Teacher's Database (DOS/Windows Version 3.32)
- Canadian Math Database (Grades 8-10) (Catalog)

Teacher Resource

Physical Characteristics:

- Access: The Teacher's Database (Macintosh Version 3.33)—One 3.5" Macintosh disc; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
- Access: The Teacher's Database (DOS/Windows Version 3.32)—Three 3.5" DOS/Windows discs; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
- Canadian Math Database (Grades 8-10) (Catalog)—416 pages, 3-ring binder; one 3.5" disc (Macintosh Version 1.0D) and one 3.5" disc (DOS/Windows Version 1.0D)



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Access to Publisher's Disks for Production

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| | ✓ | ✓ | | ✓ | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

Publisher: EducAide Software

Distributor: EducAide Software
3065 Richmond Parkway, Suite 102
RICHMOND, CA, USA 94806

Telephone: (800) 669-9405 ; (510) 222-0600

Fax: (510) 222-0165

Internet: <http://www.educaide.com>

Copyright:

1997

1997

1998

Component Titles:

- Access: The Teacher's Database (Macintosh Version 3.33)
- Access: The Teacher's Database (DOS/Windows Version 3.32)
- Canadian Math Database (Grades 8-10) (Catalog)

Est. WCP Price(s):

\$495.00 (US)

\$595.00 (US)

\$225.00 (US)

Annotation:

This resource package is a publishing system that allows teachers to draw from a collection of thousands of items arranged in topics. Most questions are of multiple-choice format, but these can be recast in open-ended format by removing the distractors. There is a preponderance of procedural items, but there are enough conceptual and problem-solving examples to allow the teacher to build an assessment consistent with a more conceptual blueprint. The technology assumed is that of the scientific calculator rather than the graphing calculator.

Comments:

- A teacher who is experienced in entering mathematical equations into a word processing program will be able to use this resource package most effectively.

Cautions:

- The Windows setup program is not yet released; the DOS/Windows Version 3.32 must be loaded under DOS, even in Windows 3.1 and Windows 95 environments.
- Windows 3.1 installations require 32-bit extensions before they run.

System Requirements:

- Macintosh: System 7.0 or higher, 68030 processor (68040 or PowerMac recommended), 4 MB RAM (6 MB recommended).
- Windows: 486/50 MHz (Pentium recommended), disc cache set to at least 512 KB.

Audience: Teachers



The Geometer's Sketchpad

- The Geometer's Sketchpad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)

Depth Resource

Physical Characteristics:

- Macintosh Version—Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference
- Windows Version—Two 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Windows Quick Reference; one videocassette



Annotation:

This resource consists of discs, a user guide and reference manual, teaching notes and sample activities, a quick reference, and an introductory video. The resource models geometry in two linked views, sketches and scripts. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grade 7 through Grade 9. The user guide and reference manual provide instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstration and construction activities, on a wide range of geometry topics, are included.

Comments:

- This resource can have greater applications as the user becomes more familiar with the program.
- The system defaults to inches, but it can be set to centimetres.
- The demonstration version allows users to produce sketches, but these sketches cannot be saved, printed or exported to another document.
- Some of the instructions in the reference manual are difficult for the novice user to follow.

System Requirements:

- Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6 or higher. A videocassette supplied with the Windows version supports both Macintosh and Windows.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive. The videocassette supports both Macintosh and Windows versions.
- Windows 95: 486/50 MHz (Pentium recommended), 8MB RAM, hard drive. The videocassette supports both Macintosh and Windows versions.

Audience: General

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| | | | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | ✓ | ✓ | ✓ | | |

Publisher: Spectrum Educational Supplies Ltd.
Distributor: Spectrum Educational Supplies Ltd.
 125 Mary Street
 AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600; (905) 841-0600
Fax: (800) 668-0602; (905) 727-6265
Internet: <http://www.spectrumed.com>

Copyright: ISBN:
 1995 1559530987
 1995 1559530995

Component Titles:
 • The Geometer's Sketchpad (Macintosh Version 3) \$289.95
 • The Geometer's Sketchpad (Windows Version 3.03) \$289.95

Est. WCP Price(s):



**Hands-on Math Projects with
Real-Life Applications:
Ready-to-Use Lessons and Materials
for Grades 6–12**

Teacher Resource

Author(s):

Muschla, G. R.; Muschla, J. A.

Physical Characteristics:

365 pages, coilbound



Annotation:

This resource includes a collection of 60 projects, with advice for teachers regarding strategies and assessment. Connections with other subjects is a major focus. Each project provides opportunities for learners to demonstrate their skills and knowledge through various means of communication.

Comments:

- There is some American content; e.g., statistical facts (page 43), and imperial measures (page 81).

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | | |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | |

Publisher: The Center For Applied Research
Education, (CARE)

Distributor: Prentice Hall Canada Inc.
1870 Birchmount Road
SCARBOROUGH, ON, CANADA M1P 2J7

Telephone: (800) 361-6128; (416) 293-3621

Fax: (416) 299-2529

Internet: <http://www.phcanada.com>

Copyright: ISBN:
1996 0876283849

Title:
Hands-on Math Projects with Real-Life
Applications: Ready-to-Use Lessons and
Materials for Grades 6–12

Est. WCP Price(s):
\$32.54

In the Balance

- In the Balance: Algebra Logic Puzzles: Grades 4–6
- In the Balance: Algebra Logic Puzzles: Grades 7–9

Teacher Resource

Author(s):

Kroner, L.

Physical Characteristics:

- In the Balance: Algebra Logic Puzzles: Grades 4–6—78 pages, coilbound
- In the Balance: Algebra Logic Puzzles: Grades 7–9—78 pages, coilbound



Annotation:

Each of these resources contains 25 reproducible logic-based number puzzles ranging from the simple to the very complex. These are extension activities that support a number of the Common Curriculum Framework mathematical processes.

Comments:

- These resources can also be used at the senior high school level in Relations and Functions.
- It would be beneficial to have both the Grades 4–6 booklet and the Grades 7–9 booklet, as it is necessary to introduce the puzzles at a simple stage of complexity—Grades 4–6—before teaching at the more complex—Grades 7–9—level.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | | ✓ | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | | ✓ | | | | | | |

Publisher: Creative Publications

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: <http://www.awl.com/canada>

Copyright: ISBN:

1997 0762205512

1997 0762205520

Component Titles:

- In the Balance: Algebra Logic Puzzles: Grades 4–6
- In the Balance: Algebra Logic Puzzles: Grades 7–9

Est. WCP Price(s):

\$22.05

\$22.05



Mathematics 9 (Distance Learning Package)

- Module 1: Operations and Number Concepts
- Module 2: Exponential and Scientific Notation
- Module 3: Equations and Inequations
- Module 4: Polynomials
- Module 5: Measurement and Geometry
- Module 6: Data Management
- Assignment Booklets
- Learning Facilitator's Manual
- Video Compilation: *Math Moves* (includes: Solving with More Than One Step); Joe Sceptic; Tilly Tile; Freddie Factor

Annotation:

This resource package consists of six coilbound modules with accompanying assignment booklets. One videocassette on key concepts supports the print material. A learning facilitator's manual is also available. The program correlates exactly with all specific outcomes of the Common Curriculum Framework.

Comments:

This resource package is designed for distance education; however, it would be a very useful package for any classroom teacher.

Audience: General

Breadth and Depth Resource

Physical Characteristics:

- Module 1: Operations and Number Concepts—106 pages, coilbound
- Module 2: Exponential and Scientific Notation—131 pages, coilbound
- Module 3: Equations and Inequations—155 pages, coilbound
- Module 4: Polynomials—191 pages, coilbound
- Module 5: Measurement and Geometry—205 pages, coilbound
- Module 6: Data Management—89 pages, coilbound
- Assignment Booklets—6 assignment booklets, 15–20 pages each, stapled
- Learning Facilitator's Manual—Approximately 100 pages, loose
- Video Compilation—1/2" VHS: 58:50 min.; 9:25 min.; 17:09 min.; 19:11 min.



Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Access to Publisher's Disks for Production

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| ✓ | ✓ | ✓ | ✓ | N/A | ✓ | ✓ | ✓ | ✓ | ✓ |

Continued

Continued

| Publisher: | Learning Technologies Branch (LTB) - Alberta Education | Copyright: | ISBN: | Component Titles: | Est. WCP Price(s): |
|---------------------|-------------------------------------------------------------------------------------------------|-------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Distributor: | Learning Technologies Branch (LTB) Alberta Learning Box 4000 BARRHEAD, AB, CANADA T7N 1P4 | 1997 | 0774110953 | • Module 1: Operations and Number Concepts | \$16.10 |
| Telephone: | (780) 674-5350 | 1997 | 0774112778 | • Module 2: Exponential and Scientific Notation | \$16.10 |
| Fax: | (780) 674-6561 | 1997 | 0774111275 | • Module 3: Equations and Inequations | \$16.10 |
| | | 1997 | 0774111534 | • Module 4: Polynomials | \$16.10 |
| | | 1997 | 0774113901 | • Module 5: Measurement and Geometry | \$16.10 |
| | | 1997 | 0774113960 | • Module 6: Data Management | \$16.10 |
| | | 1997 | | • Assignment Booklets | \$12.00 |
| | | 1997 | 0774110988 | • Learning Facilitator's Manual | \$60.00 |
| | | 1991-1994 | | • Video Compilation: <i>Math Moves</i> (includes: Solving with More Than One Step); Joe Sceptic; Tilly Tile; Freddie Factor | \$46.00 |



Mathematics with Polydron

Teacher Resource

Author(s):

Ansell, B.; Baker, L.; Harris, I.

Physical Characteristics:

Approximately 100 pages, coilbound



Annotation:

This resource contains 36 activities involving the use of polydrons. Each activity consists of a teacher sheet and a student activity sheet that can be photocopied. These activities can be used to meet student outcomes in Shape and Space (3-D Objects and 2-D Shapes) for Grade 7 to Grade 9.

Audience: Teachers

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|----------------------------|-----------------|-----------|------------|---------------|
| ✓ | | | ✓ | ✓ | | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|-----------------|-------------------|------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|----------------------------|------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | ✓ | | | |

Publisher: Cuisenaire Company of America, Inc.

Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3

Telephone: (800) 668-0600; (905) 841-0600

Fax: (800) 668-0602; (905) 727-6265

Internet: <http://www.spectrumed.com>

Copyright: ISBN:

1994 0952381508

Title:

Mathematics with Polydron

Est. WCP Price(s):

\$49.95



Tenth Planet Explores Math:
Geometry
Mirror Symmetry (Version 1.0 for
Macintosh and Windows)

Depth Resource

Physical Characteristics:

One CD-ROM; Teaching Guide—86
pages, coilbound; Quick Reference Card;
"At a Glance" card; Technical Guide—30
pages, softcover—all in a 3-ring binder



Annotation:

This resource allows for an extensive exploration of symmetry and related concepts. It includes a wide range of learning activities that span simple to complex applications. The resource promotes independent learning, critical thinking and connections to real-world situations, and encourages mathematical communication—oral and written. Teacher support materials include a teacher guide that has many extension and assessment tasks, and a computer component that provides flexible class management options.

Comments:

- The teacher support materials can be used for classroom management of specific student tasks and for assessment of individual students.
- The resource provides opportunities for a wide range of student learning needs.
- One activity uses American coins.

System Requirements:

- Macintosh: System 7.1 or higher, Macintosh LC II or higher (25 MHz 68030 processor or better), 8 MB RAM (5 MB available), 256 colour 13-inch monitor, double speed CD drive, approximately 14 MB free hard disk space, microphone (built-in or external).
- Windows 3.1: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.
- Windows 95: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.

Audience: General/ESL/Gifted/LD/ID (Mild)

Grade Level(s):

| K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Mathematical Process(es):

| Communication | Connections | Estimation and Mental Math | Problem Solving | Reasoning | Technology | Visualization |
|---------------|-------------|-------------------------------|--------------------|-----------|------------|---------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Strand(s)/Substrand(s):

| Number | | Patterns and Relations | | | Shape and Space | | | Statistics and Probability | |
|--------------------|----------------------|------------------------|----------------------------|----------------------------|-----------------|-------------------------------|-----------------|----------------------------|---------------------------|
| Number Concepts | Number Operations | Patterns | Variables and Equations | Relations and Functions | Measurement | 3-D Objects and 2-D Shapes | Transformations | Data Analysis | Chance and Uncertainty |
| | | | | | | | ✓ | | |

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7

Telephone: (800) 667-1115 ; (416) 293-8464

Fax: (416) 293-9009

Internet: <http://www.gagelearning.com>

Copyright: ISBN:

1997-1998 188861868X
(Teaching Guide)

Title:

Mirror Symmetry (Version 1.0 for Macintosh
and Windows)

Est. WCP Price(s):

\$99.95

TITLE LISTING

| TITLE/SERIES | GRADE(S) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|  ABCirque! (English Macintosh/Windows Version) | K |
| <i>Acces: The Teacher's Database</i> | 8, 9 |
|  • Acces: The Teacher's Database (Macintosh Version 3.33) | |
|  • Acces: The Teacher's Database (DOS/Windows Version 3.32) | |
|  • Canadian Math Database (Grades 8-10) (Catalog) | |
| <i>MathMania Series</i> | 6, 7, 8 |
|  Cool Math Games: Grades 7–10 | |
|  Data Explorer (Version 1.1 for Macintosh and Windows) | 4, 5, 6 |
| <i>Active Learning Series</i> | K, 1, 2, 3 |
|  The Exclusive Numberline: Teaching Number Sense and Numeration: Grades K–3, Ages 5–8 | |
|  50 Problem Solving Lessons | 1, 2, 3, 4, 5, 6 |
| <i>Gage Mathematics Assessment (Grade 3)</i> | 3 |
|  • Assessment Activities 3A | |
|  • Assessment Activities 3B | |
|  • Teacher's Resource Book: Grade 3 | |
| <i>Gage Mathematics Assessment (Grade 7)</i> | 7 |
|  Gage Mathematics Assessment Activities 7A (Grade 7) | |
| <i>Gage Mathematics Assessment (Grade 8)</i> | 8 |
|  Gage Mathematics Assessment Activities 8A (Grade 8) | |
| <i>The Geometer's Sketchpad</i> | 8, 9 |
| • The Geometer's Sketchpad (Macintosh Version 3) | |
| • The Geometer's Sketchpad (Windows Version 3.03) | |
|  Graphers (Macintosh/Windows Version) | K, 1, 2, 3, 4 |
|  Hands-On Math: Manipulatives Activities for the K–1 Classroom | K, 1 |
|  Hands-on Math Projects with Real-Life Applications: Ready-to-Use Lessons and Materials for Grades 6–12 | 7, 8, 9 |
| <i>In the Balance</i> | 4, 5, 6, 7, 8, 9 |
|  • In the Balance: Algebra Logic Puzzles: Grades 4–6 | |
|  • In the Balance: Algebra Logic Puzzles: Grades 7–9 | |

TITLE LISTING

TITLE/SERIES

GRADE(S)

Active Learning Series

5, 6, 7, 8

 Just a Minute: Activities for Spare Moments in Class: Grades 5–8, Ages 10–13

 *Kay Toliver Files 2*

4, 5, 6, 7

- Distance, Time and Speed
- Statistics
- Circles
- Decimals
- Kay Toliver Files 2: Teacher's Guide

 *Kay Toliver Files 3*

4, 5, 6, 7

- Patterns
- Length and Area
- Volume
- The Counting Principle
- Kay Toliver Files 3: Teacher's Guide


 *Kay Toliver Files 4*

4, 5, 6, 7

- Variables
- Ratios
- Charts and Graphs
- Percents
- Kay Toliver Files 4: Teacher's Guide


Active Learning Series

K, 1

 Learn with "Matty" on the Calcu-Mat: Grades K–3, Ages 5–8

Math By All Means

4, 5, 6

 Math by All Means: Area and Perimeter: Grades 5–6

 Math On the Go II: Junior: Grades 4–6, Ages 9–11










4, 5, 6

 *Mathematics 8 (Distance Learning Package)*

8

- Module 1: Number Connections
- Module 2: Patterns and Relations
- Module 3: Number Applications
- Module 4: Two-Dimensional Geometry
- Module 5: Probability and Statistics
- Module 6: Three-Dimensional Geometry
- Assignment Booklets
- Learning Facilitator's Manual
- Video 1 Compilation: *Math Moves* (includes: Adding and Subtracting Fractions; Multiplying and Dividing Fractions; Equations: Solving with One Step; Equations: Solving with More Than One Step)
- Video 2 Compilation: *Math Moves* (includes: The Percent; Number Theory); *Mathways* (includes: Areas; Volumes)

TITLE LISTING

| TITLE/SERIES | GRADE(S) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|  Mathematics 9 (Distance Learning Package) • Module 1: Operations and Number Concepts • Module 2: Exponential and Scientific Notation • Module 3: Equations and Inequations • Module 4: Polynomials • Module 5: Measurement and Geometry • Module 6: Data Management • Assignment Booklets • Learning Facilitator's Manual • Video Compilation: <i>Math Moves</i> (includes: Solving with More Than One Step); Joe Sceptic; Tilly Tile; Freddie Factor | 9 |
| Polydron  Mathematics with Polydron | 7, 8, 9 |
|  Measure for Measure: Using Portfolios in K–8 Mathematics | K, 1, 2, 3, 4, 5, 6, 7, 8 |
| Mighty Math  Mighty Math Carnival Countdown (Macintosh/Windows School Version) | K, 1, 2 |
| Tenth Planet Explores Math: Geometry  Mirror Symmetry (Version 1.0 for Macintosh and Windows) | 2, 3, 4, 5, 6, 7, 8, 9 |
| Quest 2000: Exploring Mathematics (Grade 1) • Student Book (Revised Ed.) • Teacher's Guide and Journal (Revised Ed.) • Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers) • Teacher Support Package • Problem of the Week • Professional Handbook (Revised Ed.)  • Developing Number Strategies  • Exploration Centres: Activity Cards | 1 |
| Quest 2000: Exploring Mathematics (Grade 2) • Student Book • Teacher's Guide and Journal (Revised Edition) • Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers) • Teacher Support Package • Problem of the Week • Professional Handbook (Revised Ed.)  • Developing Number Strategies  • Exploration Centres: Activity Cards (Revised Edition) | 2 |

TITLE LISTING

TITLE/SERIES

GRADE(S)

Quest 2000: Exploring Mathematics (Grade 3)

- Student Book (Revised Edition)
- Teacher's Guide and Journal
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Technology Package
- Problem of the Week
- Professional Handbook (Revised Ed.)
- Developing Number Strategies

NEW

- Exploration Centres: Activity Cards (Revised Edition)

NEW

Quest 2000: Exploring Mathematics (Grade 4)

4

- Student Book
- Teacher's Guide & Journal; Solutions Manual
- Extra Practice & Testing Masters (Student's Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Technology Package
- Problem of the Week
- Professional Handbook (Revised Ed.)
- Developing Number Strategies

NEW

- Exploration Centres: Activity Cards (Revised Edition)

NEW

Quest 2000: Exploring Mathematics (Grade 5)

5

- Student Book
- Teacher's Guide & Journal; Solutions Manual
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Technology Package
- Problem of the Week
- Professional Handbook (Revised Ed.)
- Developing Number Strategies

NEW

- Exploration Centres: Activity Cards (Revised Edition)

NEW

TITLE LISTING

| TITLE/SERIES | GRADE(S) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <div>NEW</div> <i>Quest 2000: Exploring Mathematics (Grade 6)</i> • Student Book • Teacher's Guide & Journal; Solutions Manual • Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers) • Teacher Support Package • Technology Package • Problem of the Week • Professional Handbook (Revised Ed.) <div>NEW</div> • Developing Number Strategies <div>NEW</div> • Exploration Centres: Activity Cards (Revised Edition) | 6 |
| <div>NEW</div> <i>Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol</i> Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 2 | 2 |
| <div>NEW</div> <i>Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol</i> Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 3 | 3 |
| <div>NEW</div> <i>Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol</i> Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 4 | 4 |
| <div>NEW</div> <i>Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol</i> Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 5 | 5 |
| <div>NEW</div> <i>Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol</i> Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 6 | 6 |
| <div>NEW</div> <i>Assessment Bookshelf Series</i> Student Generated Rubrics: An Assessment Model to Help All Students Succeed | K, 1, 2, 3, 4, 5, 6 |
| <div>NEW</div> <i>The Super Source</i> The Super Source: Geoboards | K, 1, 2 |
| <div>NEW</div> <i>The Super Source</i> The Super Source: Snap Cubes | K, 1, 2, 3, 4 |
| <div>NEW</div> <i>The Super Source</i> The Super Source: Tangrams | 5, 6 |
| <div>NEW</div> Using the Explorer Plus Calculator | 7, 8 |
| <div>NEW</div> Writing in Math Class: A Resource for Grades 2–8 | 2, 3, 4, 5, 6, 7, 8 |

